above ground storage tank air quality asbestos/lead-based paint baseline environmental assessment brownfield redevelopment building/infrastructure restoration caisson/piles coatings concrete construction materials services corrosion dewatering drilling due care analysis earth retention system environmental compliance environmental site assessment facility asset management failure analyses forensic engineering foundation engineering geodynamic/vibration geophysical survey geosynthetic greyfield redevelopment ground modification hydrogeologic evaluation industrial hygiene indoor air quality/mold instrumentation masonry/stone metals nondestructive testing pavement evaluation/design property condition assessment regulatory compliance remediation risk assessment roof system management sealants/waterproofing settlement analysis slope stability storm water management

> structural steel/welding underground storage tank

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

603 WEST APPLE STREET HASTINGS, MICHIGAN

Prepared for:

City of Hastings 201 E. State Street Hastings, Michigan 49058

SME Project Number: 061192.01.011

March 12, 2012





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March 12, 2012

Mr. John Hart Community Development Director City of Hastings 201 E. State Street Hastings, Michigan 49058

RE: Phase I Environmental Site Assessment Report

603 West Apple Street

SME Project Number: 061192.01.011

Dear Mr. Hart:

Soil and Materials Engineers, Inc. (SME) has completed a Phase I Environmental Site Assessment (ESA) of the above referenced property, hereinafter referred to as the Property. The enclosed Phase I ESA report presents SME's interpretation of site conditions at the time the Phase I ESA was completed, based on field observations, a review of readily available historical and regulatory records, and interviews.

The Phase I ESA was requested to identify recorded and readily observable recognized environmental conditions associated with the Property. SME understands the City of Hastings will rely upon the professional opinions and representations contained in the report in accordance with the terms and conditions agreed upon for the project. This reliance is not to be construed as a warranty or guarantee on the part of SME.

Thank you for the opportunity to provide these services. If you have any questions concerning this report, or if additional services are required, please call.

Very truly yours,

SOIL AND MAYERIALS ENGINEERS, INC.

tar Lauren E. Armeni

Environmental Scientist

Duniant Chairman

Project Engineer

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1.0 SUMMARY

Soil and Materials Engineers, Inc. (SME) performed a Phase I Environmental Site Assessment (ESA) of the property located at 603 West Apple Street, in Hastings, Barry County, Michigan, hereinafter referred to as "the Property," in conformance with the scope and limitations of ASTM Practice E 1527-05. Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report. The general Property location is shown in Figure 1.

The purpose of this Phase I ESA was to satisfy relevant All Appropriate Inquiry (AAI) requirements to qualify the City of Hastings (the User) for applicable landowner liability protections under the Comprehensive Environmental Response, Compensation and Liability Act, as amended (CERCLA). One of the primary objectives is to identify recognized environmental conditions (RECs) in connection with the Property and assess the relative significance of the identified REC(s). This Phase I ESA report is comprised of the following elements in support of AAI: 1) property description, 2) User-provided information, 3) records review, 4) site reconnaissance, 5) interviews, 6) findings, opinions, and conclusions.

At the time of the Phase I ESA reconnaissance, the Property consisted of a paved parking lot and grass covered areas. This assessment has revealed no evidence of recognized environmental conditions in connection with the Property except for the following:

• The potential for migration of impacted groundwater from the southwest adjoining site, which was historically occupied by a furniture manufacturing operation and is currently identified as a Baseline Environmental Assessment (BEA) site (Sections 5.1, 5.4.3).

It is the EP's opinion that the following investigation is needed to further assess the identified REC: a site investigation may be needed to evaluate whether environmental contamination is associated with the identified REC.

The User acquiring the Property is the sole party responsible for complying with AAI requirements for Landowner Liability Protection (LLP) under CERCLA as an Innocent Purchaser, Bona Fide Prospective Purchaser, or Contiguous Property Owner, as applicable. The completion of a Phase I ESA, with statement by an Environmental Professional (EP) that it is compliant with AAI and/or the ASTM E 1527-05 Practice, may not be sufficient to provide CERCLA LLP.



Phase 1 Environmental Site Assessment Report 603 West Apple Street, Hastings, Michigan SME Project Number: 061192.01.011 March 12, 2012- Page 2

SME's Project Team was as follows:

Preparer: Lauren E. Armeni

Environmental Professional (EP): Sara I. Bals, EIT

Senior Technical Reviewer: Keith B. Egan, Ohio CP#259

2.0 INTRODUCTION

SME performed a Phase I Environmental Site Assessment (ESA) of the property located at 603 West Apple Street in the City of Hastings, Barry County, Michigan, hereinafter referred to as "the Property." The Phase I ESA was conducted according to the ASTM International (ASTM) Practice E 1527-05 (Practice), which is accepted in the U.S. Environmental Protection Agency regulations as satisfying one component of the requirements of All Appropriate Inquiries (AAI) under the Comprehensive Environmental Response, Compensation and Liability Act, as amended (CERCLA).

Satisfying AAI is one component of the requirements for a Prospective Purchaser to qualify for the Bona Fide Prospective Purchaser (BFPP), Contiguous Property Owner, or Innocent Landowner defense to CERCLA liability. For properties known to be contaminated with hazardous substances, or petroleum, the Prospective Purchaser also must comply with the continuing obligations defined in CERCLA to maintain the landowner liability protection (LLP) to CERCLA.

This Phase I ESA was funded by the City of Hastings' United States Environmental Protection Agency (U.S. EPA) Brownfields Assessment Grant for Hazardous Substances.

2.1 Purpose

The purpose of this Phase I ESA was to satisfy relevant ASTM Practice requirements for the User of this report. One of the primary objectives was to identify recognized environmental conditions (RECs) in connection with the Property and assess the relative significance of the identified REC(s). The Practice defines a REC as:

...the presence or likely presence of any hazardous substances¹ or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis are not recognized environmental conditions.

¹ For the purposes of this Phase I ESA, a hazardous substance is a substance as defined in the ASTM Practice E 1527-05.



2.2 Detailed Scope of Services

This Phase I ESA was conducted in conformance with the ASTM Standard Practice on Environmental Site Assessments for Commercial Real Estate designation E 1527-05, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process." This Phase I ESA does not address the non-scope considerations as defined by Section 13 of the Practice.

2.3 Significant Assumptions

Pursuant to the Practice, SME assumes information provided by all sources and parties, including the User, is accurate and complete, except where obvious inconsistencies or inaccuracies were identified.

2.4 Limitations and Exceptions

No limitations were encountered during site reconnaissance activities. The Practice's scope of assessment was implemented without exceptions.

2.5 Special Terms and Conditions

No special terms and conditions were imposed on SME as part of this Phase I ESA.

2.6 Reliance

SME has prepared this report to be used and relied upon solely and exclusively by the City of Hastings (the User), in accordance with terms and conditions agreed upon for the project. No other party may rely upon SME's opinions, conclusions or reports unless SME has agreed to such reliance in writing.



3.0 PROPERTY DESCRIPTION

The following subsections contain descriptions of the Property, uses and conditions of the Property, and uses of the adjoining sites at the time of this Phase I ESA. Photographs of the Property and surrounding areas are included in Appendix A.

3.1 Property Location and Legal Description

The Property is located at 603 West Apple Street, Hastings, Barry County, Michigan. The Property location is shown in Figure 1. The legal description of the Property, tax identification number 08-55-001-143-00, is included in Appendix B.

3.2 Property and Vicinity Characteristics

At the time of the reconnaissance, the Property consisted of approximately 0.35 acres of paved parking and grass-covered land. The Property was located north of West Apple Street along the Thornapple River in a commercial area in downtown Hastings.

A current Property Features Diagram (Figure 2) was developed from the observations, field notes, photographs, and/or historical information collected during conduct of this Phase I ESA.

3.3 Current Use of the Property

At the time of the reconnaissance, the Property was a parking lot. The following primary utilities were available to the area of the Property: electricity, natural gas, and municipal water and sanitary sewer.



3.4 Current Uses of the Adjoining Sites

Known current uses of adjoining sites are summarized in the following table:

| Direction | Name Address | Activity |
|-----------|---|----------------------------|
| North | Hastings Riverwalk and Thornapple River | Recreational |
| | Parking lot | Parking |
| East | Walker, Fluke, and Sheldon – Certified Public Accountants | Commercial (accounting) |
| | 525 West Apple Street | |
| Southeast | River Bend Travel 533 West State Street | Commercial (travel agency) |
| South | Wendy's Restaurant 613 West State Street | Commercial (restaurant) |
| Southwest | Commercial Bank 629 West State Street | Commercial |
| West | Parking lot | Parking |



4.0 USER PROVIDED INFORMATION

As part of AAI the User has the statutory responsibility, above and beyond the Phase I ESA conducted under supervision of an EP, to provide information described in the subsections below. The User information was provided through completion of the **User Questionnaire** attached in Appendix C.

4.1 Reason for the Phase I ESA

Mr. John Hart reported that the reason for this Phase I ESA of the Property was to support the User's all appropriate inquiry into environmental conditions of the Property, a component of the User's effort to qualify for one of the landowner liability protections to CERCLA applicable to the planned purchase of the Property.

4.2 Recorded Environmental Cleanup Liens and AULs

Mr. Hart reported that Bell Title was retained to review recorded land title records on file with the Register of Deeds for Barry County, Michigan, for the purpose of identifying recorded environmental cleanup liens and AULs related to the Property. No recorded environmental cleanup liens or AULs related to the Property were reported by the User.

4.3 Specialized Knowledge and Experience

Mr. Hart reported having no specialized knowledge or experience that would indicate, or create suspicion of, the presence of environmental contamination on the Property.

4.4 Relationship of Purchase Price to Value

Mr. Hart reported that the purchase price of the Property was significantly below fair market value. The reduced purchase price was reported to be the result of the owner providing the Property to the City of Hastings to support the second phase of the Thornapple Riverwalk trail development.

4.5 Commonly Known or Reasonably Ascertainable Information

Mr. Hart reported that he has not become aware, through conversations, rumor, etc., of any commonly known or reasonably ascertainable information within the local community that would indicate the Property could be contaminated or that any past event could have resulted in environmental impact of the Property or adjoining properties.



4.6 Proceedings Involving the Property

Mr. Hart, based on personal knowledge and experience related to the Property, reported no known pending, threatened, or past litigation, administrative proceedings, or violations of environmental laws and regulations related to hazardous substances or petroleum products in, on, or arising from the Property.



5.0 RECORDS REVIEW

5.1 Environmental Record Sources

SME retained Environmental Data Resources, Inc. (EDR) to query the state, federal, and tribal regulatory agency databases described in the Practice to identify regulated and/or environmentally impacted sites within the specified approximate minimum search distances. EDR also queried other readily available regulatory agency databases. The queried databases, associated search radii, and dates the lists were updated are listed in the EDR report (Appendix D). The EDR report also includes maps indicating the locations of these listed sites relative to the Property. Unmapped sites, as identified by EDR, are sites, which for various reasons cannot be mapped through the EDR query system.

A summary of listed sites of concern determined by SME to be suspect RECs is presented in the table included in this subsection. Where possible, SME attempted to locate the reported unmapped sites. Unmapped sites determined by SME to be within the applicable approximate minimum search distance(s) and to be suspect RECs are also included in the table. Based on distance from the Property, local topography, and assumed groundwater flow toward the Thornapple River, the remaining sites do not appear to represent suspect RECs in connection with the Property. In SME's opinion, it was not necessary to review records for these sites.

LISTED SITES OF CONCERN (SUSPECT RECS)

| Site Name and Address | Approximate Distance and Direction from Property ¹ | Name of List ² |
|---------------------------|---|---------------------------|
| 629/635 West State Street | Southwest adjoining | BEA |
| 441 West Mill Street | 570 feet east-northeast | US Brownfield |
| 333 West State Street | 0.22 miles east-southeast | US Brownfield |

EDR sites are mapped by address. Distances and/or site directions listed above may be adjusted from those reported by EDR to better represent field conditions and potential site boundaries.

²Definitions of acronyms and lists are presented in the EDR report.

SME reviewed available MDEQ file information for the 629/635 West State Street BEA site. In addition, as part of the City of Hastings' U.S. EPA Brownfields Assessment Grant for Hazardous Substances, SME completed Phase II ESAs for the 441 West Mill Street and 333 West State Street sites in December 2010. A summary of information regarding these sites is presented below:



The southwest adjoining 629/635 West State Street site is listed as a BEA site. SME completed a BEA of this site in November 1996, and PM Environmental, Inc. (PM) completed a BEA of this site in December 2010. Based on the results of a Phase II ESA completed in 1996, SME identified barium, lead, and mercury in soil at concentrations above Part 201 Generic Residential Cleanup Criteria. In 2010, PM completed an additional Phase II ESA at the site. PM identified soil impacted with benzo(a)pyrene, mercury, and lead at concentrations above Part 201 Generic Residential Cleanup Criteria. PM also identified groundwater impacted with trichloroethene (TCE) and tetrachloroethene (PCE) at concentrations above Part 201 Generic Residential Cleanup Criteria. The impacted groundwater was identified on the northern site boundary along West Apple Street. Because the site is located generally downgradient from the Property, the potential migration of TCE/PCE-impacted groundwater onto the Property represents a suspect REC in connection with the Property.

The 441 West Mill Street site is listed as a US Brownfield and is located approximately 780 feet east-northeast of the Property. The Property was historically occupied by a residence until the building was destroyed by fire in 2010. A Phase II ESA was completed to investigate the potential for environmental impact from asbestos building materials, lead-based paints, and mercury containing devices that may have been located in the building when it was destroyed. SME collected surficial soil samples from the site and submitted them for analyses of asbestos, lead, and mercury. These compounds were not measured at concentrations above Part 201 generic residential cleanup criteria. Based on the historical use of the site as a residence and the absence of impacted soil, the site does not appear to represent a REC in connection with the Property.

The 333 West State Street site is listed as a US Brownfield and is located approximately 0.22 miles east-southeast of the Property. The site was used for residential and commercial purposes and reportedly contained fill material from an unknown source. SME completed a Phase II to evaluate the fill material and the potential for impacted groundwater associated with a former adjoining gasoline service station. SME collected soil and groundwater samples from the site and submitted them for analyses of VOCs, PAHs, and various metals. These analytes were not measured at concentrations above Part 201 generic residential cleanup criteria. Based on the Phase II results, it does not appear that groundwater on the site is impacted. Therefore, the site does not appear to represent a REC in connection with the Property.



5.2 Additional Environmental Record Sources

5.2.1 County Environmental Health Department

On January 30, 2012, SME contacted the Barry-Eaton District Health Department via facsimile transmission and requested all available information pertaining to environmental concerns associated with the Property and surrounding area, including information on septic systems and water wells, if any, located on the Property. Mr. Eric R. Pessell, Environmental Health Director/FOIA Coordinator, indicated no records were available for the Property.

5.2.2 Fire Department

On January 30, 2012, SME contacted the City of Hastings Fire Department via telephone and requested all available records associated with the Property and surrounding properties. Mr. Roger Caris, Fire Chief indicated no records were available for the Property.

5.2.3 MDEQ Geological Survey Division

SME queried the MDEQ-Geological Survey Division's (GSD) Oil and Gas Information System – Online Data Query for oil and gas permits/wells for the Property's township, range and section number. According to the February 14, 2012 query results, no known oil and/or gas well permits were recorded for the Property section number.

5.2.4 Other Record Sources

No other record sources were contacted as part of this Phase I ESA.

5.3 Physical Setting Source(s)

5.3.1 USGS – Current 7.5 Minute Topographic Map

SME reviewed a United States Geological Survey (USGS) 7.5 minute series Topographic Map Hastings Quadrangle, Michigan, compiled in 1980 and photorevised in 1982. The Property was shown as relatively flat at an elevation of approximately 786 fcet to 800 feet above mean sea level (MSL). One building was located on the Property. A sewage disposal area was shown approximately 0.2 miles west from the Property. Tyden Park was shown approximately 0.1 miles northwest from the Property. The Thornapple River was shown along the northern Property boundary. No other bodies of water were depicted within a one-mile radius.



5.3.2 Other Non-Practice Physical Setting Sources

Based on SME's experience with subsurface conditions in the area of the Property, the general soil profile is fine to coarse sand with varying amounts of silt, clay, and gravel that extends to at least eight feet below grade. Groundwater is generally encountered at depths ranging from 11 feet to 17 feet below grade.

5.4 Historical Use Information for the Property

The objective of consulting historical record sources is to develop a history of the Property's previous uses to help identify the likelihood of past uses having led to RECs in connection with the Property. The information reviewed was from reasonably ascertainable standard sources, defined in the Practice as publicly available, obtainable from its source within reasonable time and cost constraints, and practicably reviewable.

Data failures encountered, as defined by the Practice, are described in the following discussions of the respective historical sources. The Practice requires review of only as many of the standard historical sources as are reasonably ascertainable and likely to be useful.

5.4.1 Standard Historical Sources

The sources reviewed to determine the historical uses of the Property and related environmental issues are summarized below. Copies of source documents are included in Appendix B. A summary of findings from these reviews is presented in section 5.4.2.

- Aerial Photographs: SME reviewed aerial photographs, obtained from EDR, dated 1938, 1950, 1955, 1960, 1967, 1974, 1981, 1992, 1998, 2005, and 2006.
- Fire Insurance Maps: SME reviewed Sanborn® Fire Insurance Maps of the Property area, obtained from EDR, dated 1909, 1916, 1928, and 1949; however, the Property was outside of the mapped area.
- Property Tax Files: SME visited the Hastings City Hall and requested all available records pertaining to the Property. SME reviewed the available records, which consisted of a Real Estate Summary Sheet. In addition, Mr. John Hart, Hastings Community Development Director provided SME with a parcel map and tax assessment field sheet for the Property.
- Recorded Land Title Records: SME did not review land title records because
 information regarding the history of the Property was obtained from other historical
 sources identified herein. In addition, land title records typically provide information
 regarding ownership, but not use, of a property.



- **USGS Topographic Maps:** SME reviewed the USGS 7.5 minute series Topographic Map Hastings Quadrangle, Michigan, compiled in 1982.
- Local Street Directories: SME reviewed local street directories, obtained from EDR, for the years 1929, 1936, 1944, 1950, 1954, 1959, 1964, 1968, 1972, 1977, 1982, 1986, 1991, 1995, 2000, 2006, and 2011. EDR indicated that the Property was not listed in the 2006 and 2011 directories.
- Building Department Records: SME visited the Hastings Building Department located in Hastings City Hall and requested all available records pertaining to the Property. No records were provided to SME for review.
- Zoning/Land Use Records: SME reviewed the City of Hastings zoning map. According to the zoning map, the Property was zoned Apartment-Office Building (A-O).
- Other Historical Sources: SME did not review other historical sources because sufficient information regarding the history of the Property was obtained from the aforementioned historical sources.

5.4.2 Historical Use Summary

A summary of historical usage of the Property, back to 1938, the date of earliest readily available records as described above, is presented in the following table:

HISTORICAL USE SUMMARY

| Year / Period | Identified / Inferred Use | Source (Date) |
|------------------|---|-------------------------------------|
| 1929 - 1944 | The Property appeared to be grass- and tree-covered land. | Aerial Photograph (1938) |
| | No listing was available for the Property. | City Directories (1929, 1936, 1944) |
| 1950 - 1972 | The Property appeared to be grass- and tree-covered land. What appeared to be an access road was visible on the southern and central portions of the Property. Due to the scale of the aerial photographs, it was difficult to determine if buildings were present on the Property. | Aerial Photographs (1950 - 1967) |
| | The Property was listed as occupied by a residence. | City Directories (1950 - 1972) |



HISTORICAL USE SUMMARY Cont.

| Year / Period | Identified / Inferred Use | Source (Date) |
|------------------|---|-------------------------------------|
| | The Property appeared to be grass- and tree-covered land. What appeared to be an access road was visible on the southern portion of the Property. | Aerial Photographs (1974 - 1998) |
| 1974 - 1995 | What appeared to be a building was visible on the eastern portion of the Property. | Topographic Map (1982) |
| | The Property was listed as occupied by a residence. | City Directories (1977 - 1995) |
| 1998 - 2006 | The Property appeared to be a paved parking lot. | Aerial Photographs (2005, 2006) |
| 1990 - 2000 | No listing was available for the Property. | City Directory (2000). |

SME identified no RECs in connection with the historical use(s) of the Property. The heating source(s) for the former building on the Property is unknown. SME encountered no information to indicate the past or current presence of a fuel oil UST(s) on the Property.

5.4.3 Historical Use Information About Proximate Sites

An attempt was made to assess the historical uses of proximate sites by reviewing records referenced in Section 5.4. A summary of proximate sites of concern (suspect RECs), as identified only to the extent that this information was revealed in the course of researching the Property itself, is presented in the table below:

| Year / Period | Identified / Inferred Use (Relationship to Property) | Source (Date) |
|---------------|--|--|
| 1909 - 1949 | The south adjoining site was occupied by a Bookcase Company and Furniture Factory. | Sanborn Maps (1909, 1916, 1928, 1949) |



6.0 SITE RECONNAISSANCE

The site reconnaissance was conducted to identify evidence of the presence of suspect RECs in connection with the Property. Descriptions of the current Property use and conditions, including the use, storage, and/or treatment of hazardous substances and/or petroleum products and the generation, storage/accumulation, and/or disposal of chemical, petroleum or other contaminated wastes are presented in the following sections.

6.1 Methodology and Limitations

On February 1, 2012, Ms. Lauren E. Armeni of SME conducted a reconnaissance of the Property to observe Property conditions and features in an effort to identify RECs in connection with the Property. SME was unaccompanied during the reconnaissance. The reconnaissance consisted of walking the Property's boundary and then walking the interior portions of the Property. Photographs taken during the reconnaissance, which illustrate observed Property conditions and surrounding areas, are contained in Appendix A. SME encountered no limitations during the reconnaissance.

6.2 General Property Setting

The Property was located south of the Thornapple River, north of West Apple Street, and west of North Washington Street in a commercial and residential area in downtown Hastings.

6.3 Exterior Observations

The Property was a developed with a paved parking lot and grass-covered areas. During the Property reconnaissance, SME observed no evidence of stained soils or pavements, or areas of stressed vegetation. In addition, SME observed no evidence of septic systems or water supply wells.

6.3.1 Chemical Use and Storage

SME observed no exterior use and/or storage of chemicals.

6.3.2 USTs/ASTs

SME observed no exterior evidence of USTs or ASTs.

6.3.3 PCB Containing Equipment

SME observed no exterior evidence of equipment containing polychlorinated biphenyl (PCB).



6.3.4 Pits, Ponds, and Lagoons

SME observed no visual evidence of pits, ponds, or lagoons.

6.3.5 Waste Generation, Treatment, Storage, and Disposal

SME observed no exterior visual evidence of the generation, treatment, storage, or disposal of liquid or solid wastes.

6.3.6 Other Exterior Features

SME observed no other exterior features indicative of suspect RECs.

6.4 Interior Observations

At the time of SME's reconnaissance, there were no structures on the Property.

6.5 Adjoining Sites Observations

SME observed adjoining sites from the Property boundaries and public right-of-ways for evidence of RECs. The reconnaissance did not include physically accessing the adjoining sites; therefore, SME was unable to view all portions of adjoining sites.

The Property was adjoined by the Hastings Riverwalk and the Thornapple River to the north. Walker, Fluke, and Sheldon – Certified Public Accountants adjoined the Property to the east. River Bend Travel adjoined the Property to the southeast. A Wendy's restaurant adjoined the Property to the south, and a Commercial Bank adjoined the Property to the southwest. A parking lot adjoined the Property to the west. Based on visual observations, the adjoining sites did not appear to represent RECs in connection with the Property.



7.0 INTERVIEWS

As part of the conduct of this Phase I ESA, SME was unable to interview the Owner of the Property. SME interviewed the following pertinent individuals other than the User of this report:

- Current Property Owner Mr. Tim Kelly, Commercial Bank Hastings Community President
- State and/or local government officials Mr. Roger Caris, Fire Chief of Hastings Fire Department

7.1 Interviews with Owner/Site Manager/Occupant

SME's interview of the current owner consisted of evaluation of information provided on an Owner/Occupant Questionnaire completed by Mr. Tim Kelly and a verbal interview with Mr. Kelly by phone on March 5, 2012. A copy of SME's Owner/Occupant Questionnaire completed by Mr. Kelly is included in Appendix C. SME identified no RECs based on review of the Owner/Occupant Questionnaire. In addition, SME interviewed the Owner, seeking the following information:

- Whether the Owner knew of the existence of environmental reports and permits;
 UST, AST, and underground injection system registrations; material safety data sheets; community right-to-know plans; safety and spill prevention plans; hydrogeologic reports; notices of past or current violations of environmental laws; hazardous waste generator notices or reports; geotechnical studies; risk assessments; and recorded activity and use limitations.
- If the Owner had knowledge regarding historical use, occupants, and operations.
- Whether the Owner knew of any pending, threatened, or past litigation and/or administrative proceedings; or governmental notices regarding any possible violation of environmental laws or possible liability related to hazardous substances or petroleum products in, on, or from the Property.

Mr. Kelly had no knowledge related to the above issues.



7.2 Interviews with Local Government Officials

On January 30, 2012, SME interviewed Fire Chief Roger Caris of the Hastings Fire Department, and asked whether he had any environmental concerns associated with the Property and surrounding area. Mr. Caris indicated he was not aware of environmentally related incidents having occurred on the Property.

7.3 Interviews with Others

No other interviews were performed as part of this Phase I ESA.



8.0 FINDINGS, OPINIONS, AND CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of 603 West Apple Street, Hastings, Barry County, Michigan, the Property. Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the Property except for the following:

• The potential for migration of impacted groundwater onto the Property from historical furniture manufacturing operations on the southwest adjoining site (629/635 West State Street) (Sections 5.1 and 5.4.3) –Based on SME's review of MDEQ file information for the southwest adjoining site, groundwater was impacted with TCE and PCE at concentrations above Part 201 Generic Residential Cleanup Criteria. Because the site is generally located downgradient of the Property, it is possible that this impacted groundwater has migrated onto the Property. This represents a REC in connection with the Property.

It is the EP's opinion that the following investigation is needed to further assess the identified REC: a site investigation may be needed to evaluate whether environmental contamination is associated with the identified REC.

SME identified no data gaps or limitations in connection with this Phase I ESA.



Phase I Environmental Site Assessment Report 603 West Apple Street, Hastings, Michigan SME Project Number: 061192.01.011

March 12, 2012- Page 20

9.0 DEVIATIONS

No deviations occurred as part of this Phase I ESA.



10.0 ADDITIONAL SERVICES

No additional services were provided in conjunction with this Phase I ESA.



11.0 REFERENCES

- 1. ASTM International, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, November 1, 2005.
- 2. PM Environmental, Inc., Category-N Baseline Environmental Assessment, December 13, 2010.
- 3. Soil and Materials Engineers, Inc., Baseline Environmental Assessment Conducted Pursuant to Section 20126(1)(C) of 1994 PA 451, Part 201, as Amended, October 29, 1996.



12.0 GENERAL COMMENTS

SME conducted this Phase I ESA to identify RECs in connection with the Property and to assess the relative significance of the identified RECs. The findings, opinions, conclusions, and recommendations presented in this report are based upon observations noted during the site visit, and information obtained during the performance of the scope of services on the dates indicated. In the process of obtaining the field and historical information in preparation of this report, procedures were followed that represent reasonable and accepted environmental practices and principles, in a manner consistent with that level of care and skill ordinarily exercised by members of these professions currently practicing under similar conditions. Records reviewed at various locations as identified within the text of this report, include only those records that were provided to SME by the referenced department on the date indicated. As such, the records provided to SME may not represent all records available at a given source. Appropriate inquiry was made into the past uses of the Property consistent with good commercial or customary practice. As is typical with Phase I ESAs, SME conducted no testing or subsurface evaluation for this assessment.

Due to unknown or latent conditions on the Property, or on adjacent or nearby properties, which may become evident in the future, SME does not represent the Property is free of contamination or hazardous waste material. It should also be noted the Property conditions may change over time. Should additional surface, subsurface, chemical, or other data become available after the date of issue of this report, the findings, conclusions and recommendations contained in this report may have to be modified. SME should be retained to review the new information and adjust our opinion and recommendations accordingly.

All reports, field data, field notes, laboratory test data, calculations, estimates and other documents prepared by SME as instruments of service are the property of SME. No parties other than those specifically identified in this report may rely upon SME's opinions, conclusions or reports unless SME has agreed to such reliance in writing. In any event, any reliance will be subject to the terms and conditions set forth in the contractual agreement under which this work was performed.



SME Project Number: 061192.01.011 March 12, 2012

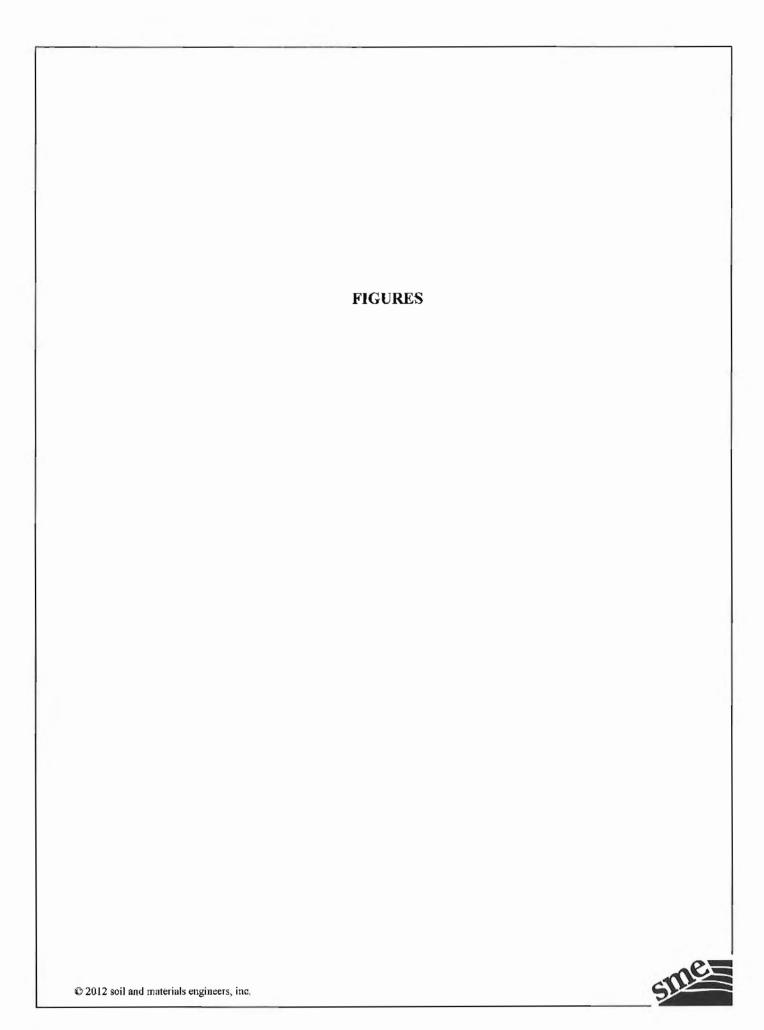
SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S)

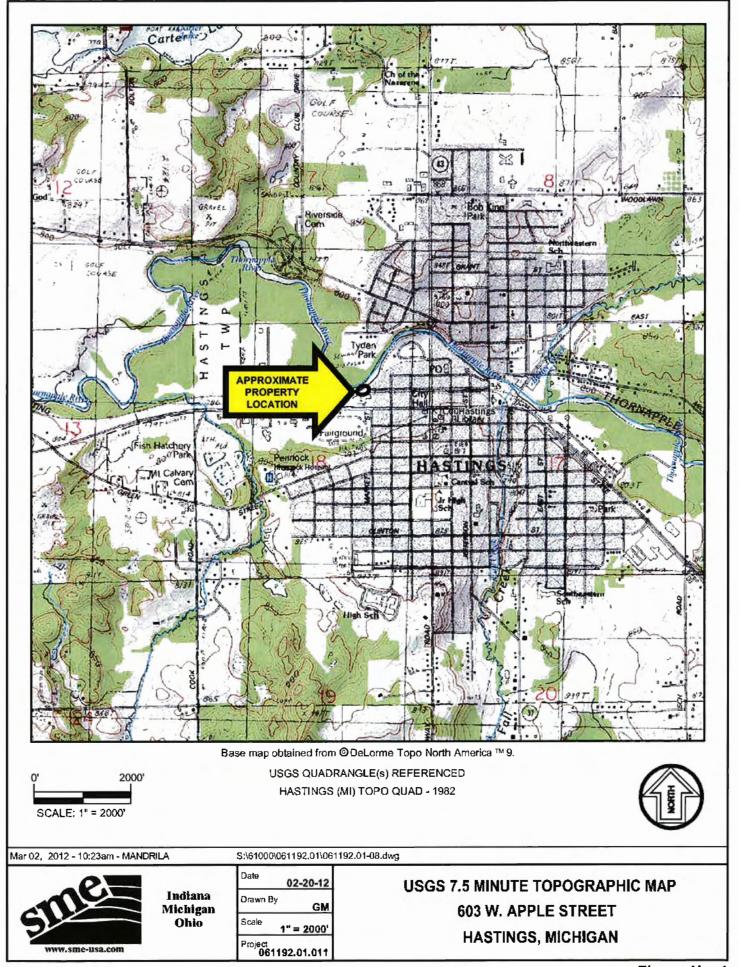
The Environmental Professional responsible for the conduct of this Phase I ESA was Ms. Sara I. Bals. The site reconnaissance and interviews were performed by Ms. Lauren E. Armeni. The report was reviewed by Mr. Keith B. Egan. Resumes of Ms. Armeni, Ms. Bals and Mr. Egan are attached in Appendix F.

I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Sara I. Bals, EIT

Project Engineer





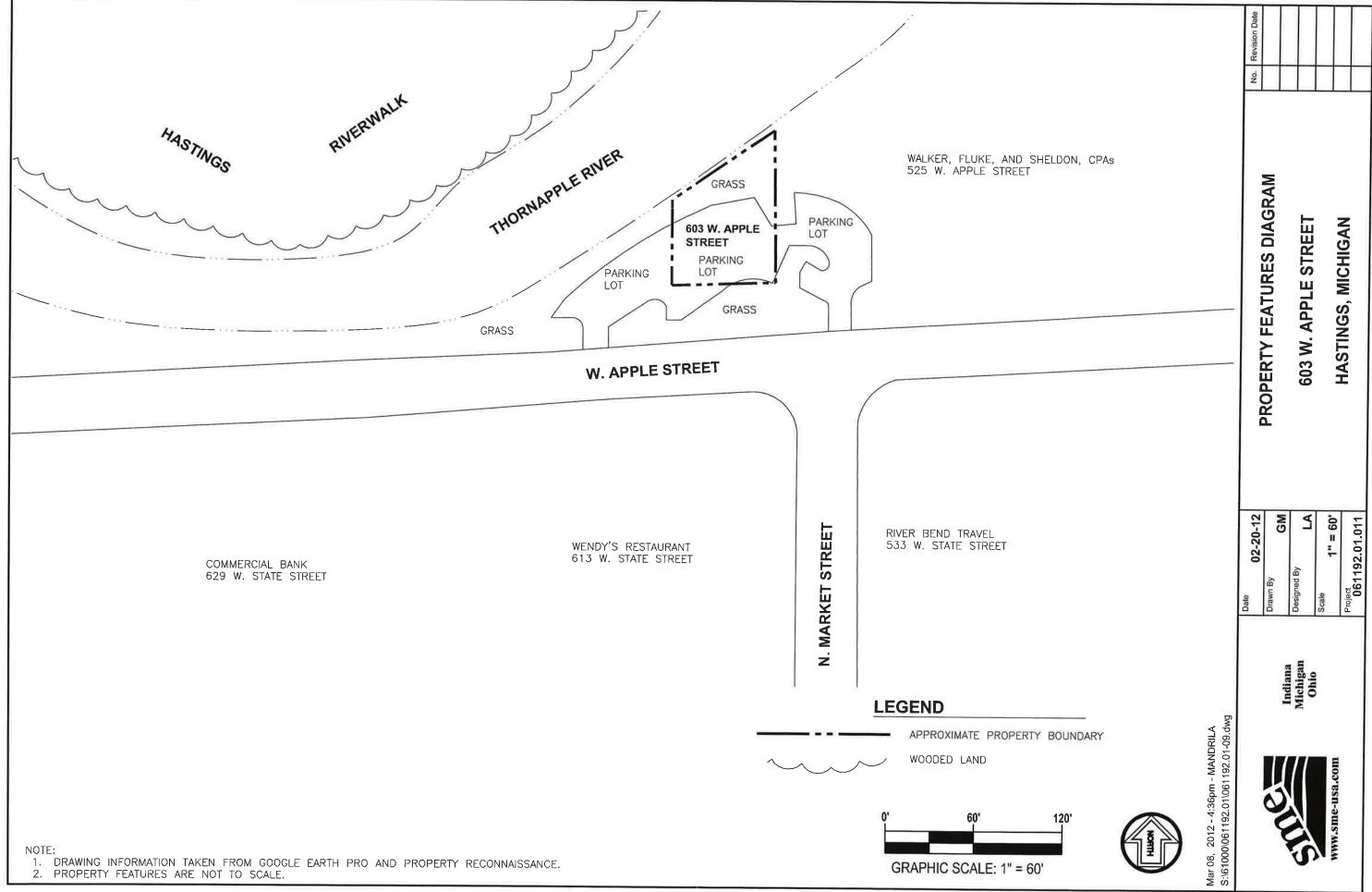


Figure No. 2

APPENDIX A PHOTOGRAPHS





PHOTO NO. 1: View of northern side of Property, taken from eastern side of Property looking west.



PHOTO NO. 2: View of eastern side of Property, taken from northern side of Property looking south.

| SME Project Number: | 061192.01.011 |
|---------------------|-----------------------|
| Photograph by: | Lauren E. Armeni |
| Date: | February 1, 2012 |
| Project: | 603 West Apple Street |
| Location: | Hastings, Michigan |
| | |



PHOTO NO. 3: View of southern side of Property, taken from eastern side of Property looking west.



PHOTO NO. 4: View of western side of Property, taken from southern side of Property looking north.

| SME Project Number: | 061192.01.011 |
|---------------------|-----------------------|
| Photograph by: | Lauren E. Armeni |
| Date: | February 1, 2012 |
| Project: | 603 West Apple Street |
| Location: | Hastings, Michigan |



PHOTO NO. 5: View of central portion of Property, taken from eastern side of Property looking west.



PHOTO NO. 6: North adjoining Thornapple River and Hastings Riverwalk, taken from northern portion of Property looking north.

SME Project Number:061192.01.011Photograph by:Lauren E. ArmeniDate:February 1, 2012Project:603 West Apple StreetLocation:Hastings, Michigan



PHOTO NO. 7: East-adjoining Walker, Fluke, and Sheldon - Certified Public Accountants, taken from southeastern side of Property looking southeast.

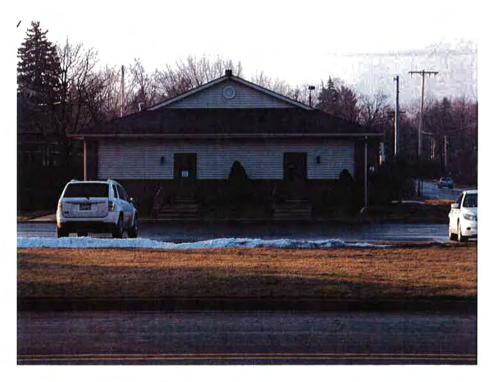


PHOTO NO. 8: Southeast-adjoining River Bend Travel, taken from southeastern side of Property looking southeast.

| SME Project Number: | 061192.01.011 |
|---------------------|-----------------------|
| Photograph by: | Lauren E. Armeni |
| Date: | February 1, 2012 |
| Project: | 603 West Apple Street |
| Location: | Hastings, Michigan |



PHOTO NO. 9: South-adjoining Wendy's Restaurant, taken from south side of Property looking south.

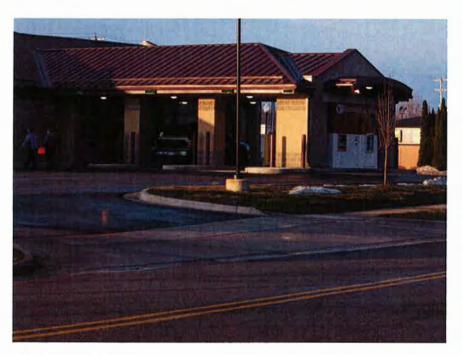


PHOTO NO. 10: Southwest-adjoining Commercial Bank, taken from south side of Property looking southwest

SME Project Number: 061192.01.011

Photograph by: Lauren E. Armeni Date: February 1, 2012

Project: 603 West Apple Street

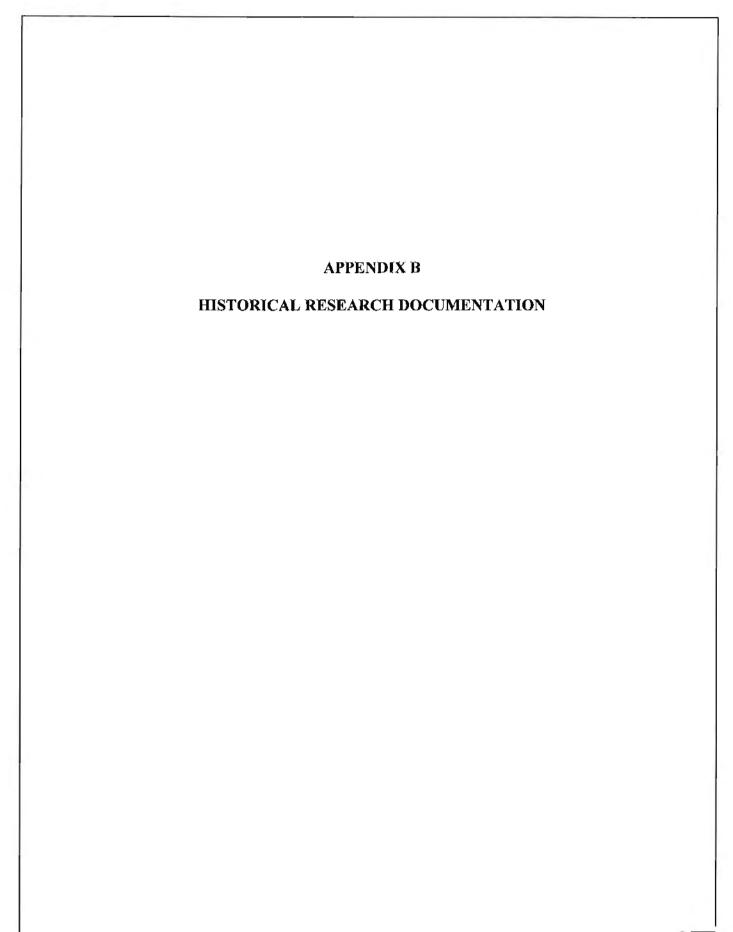
Location: Hastings, Michigan



PHOTO NO. 11: West-adjoining parking lot taken from northwestern corner of Property looking southeast.

SME Project Number: 061192.01.011
Photograph by: Lauren E. Armeni
Date: February 1, 2012

Project: 603 West Apple Street Location: Hastings, Michigan





Information herein deemed reliable but not guaranteed

Parcel:

55-001-143-00

Owner's Name: Property Address: COMMERCIAL BANK 603 W APPLE ST

HASTINGS, MI 49058

Liber/Page:

201103150002736

Created:

Split:

11

Active: Active

Public Impr.: Topography:

Water, Sewer

None

Mailing Address:

101 N PINE RIVER ITHACA MI 48847

CITY OF HASTINGS LOT 412.

Description:

Most Recent Sale Information

Sold on 03/01/2011 for 1 by MAINSTREET SAVINGS BANK FSB.

Terms of Sale:

DISTRESSED SALE

Liber/Page:

Current Class:

School: Neighborhood:

Previous Class: Gov. Unit: MAP #

201103150002736

Most Recent Permit Information

Permit 9840 on 06/05/1998 for \$5,000 category POLE BLDG.

Physical Property Characteristics

2012 S.E.V.: 2011 S.E.V.: Tentative 61,400

2012 Taxable: 2011 Taxable: Tentative 53,548

Lot Dimensions:

Acreage:

202.COMMERCIAL VACANT 202.COMMERCIAL VACANT 55 CITY OF HASTINGS

08030 HASTINGS AREA SCHOOLS 007 DOWNTOWN BUSINESS DISTRICT

Frontage:

14,853.96

Zoning: PRE:

A-O 0.000 Land Value:

Land Impr. Value:

Tentative Tentative

Average Depth:

198.0 75.0

Improvement Data

None

Image



| 1 | 1 record found. | 1 |
|---|-------------------|---|
| | Displaying 1 of 1 | |

Property Maps:

Map 1

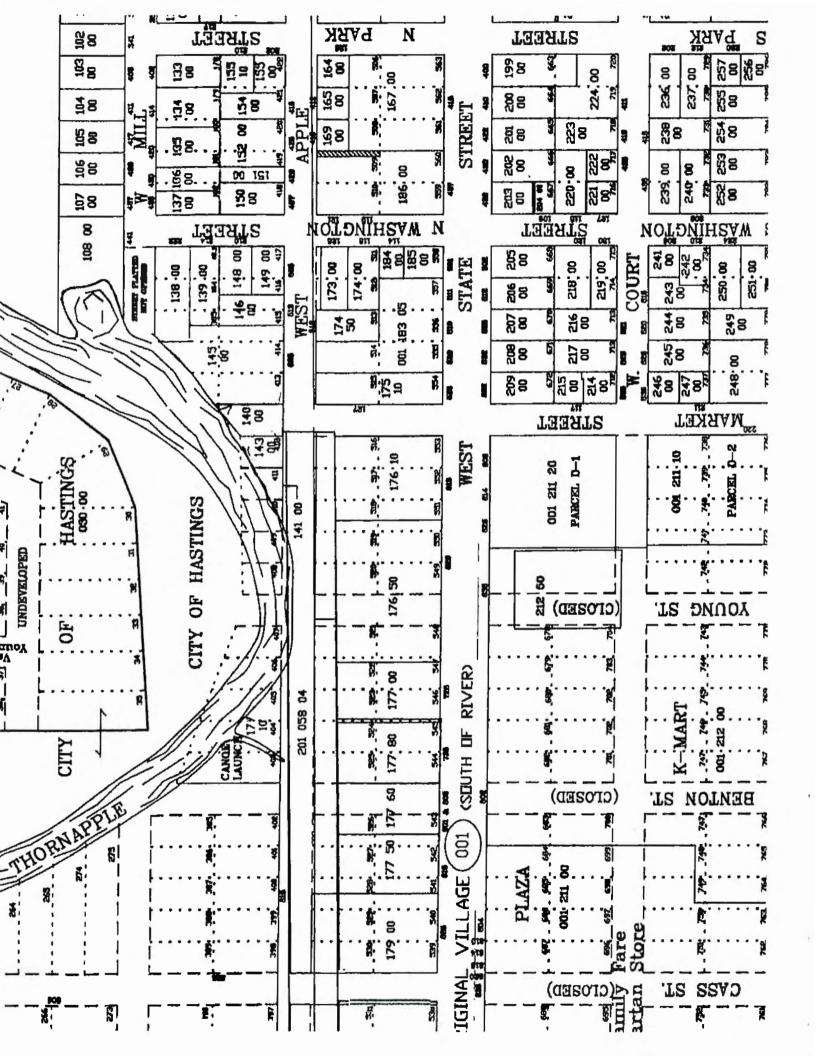
| | | Parcel Da | ta | | | |
|--------------------|-----------------|------------------|--------------------|------------|----------|--|
| Parcel: | 55-001-143-00 | | | | | |
| Property Address: | 603 W APPLE ST | City: HASTINGS | Zip ; 49058 | | | |
| Owner's Name(s): | MAINSTREET SAV | INGS BANK FSB | | | | |
| Owner's Address: | 629 W STATE ST | City: HASTINGS | State: MI | ZIp: 49058 | | |
| Legal Description: | CITY OF HASTING | S LOT 412. | | | | |
| | | Assessment | Data | | | |
| 2011 SEV: | 61400 | 20 | 11 Taxable: | | 53548 | |
| 2010 SEV: | 61700 | 20 | 10 Taxable: | | 52653 | |
| | | | Acreage: | | 14853.96 | |
| Property Class: | 202 | Sch | ool District: | | 08030 | |
| Zoning: | | | | | | |
| | | Improvement | Data | | | |
| # Res Buildings: | 0 | | Class: | | D | |
| Floor Area: | 0 | | Full Baths: | | 0 | |
| / L | | | Half Baths: | | 0 | |
| Basement Area: | 0 | | Bedrooms: | | 0 | |
| Garage Area: | 0 | | Exterior: | | | |
| Ground Area: | 0.00 | Actual | Front Foot: | | 0.000 | |
| Occupancy: | Single Family | # A! | g Buildings: | | 0 | |
| Style: | | C | l Bulldings: | | 0 | |
| Year Built: | 0 | | | | | |
| | | Recent Sale Info | rmation | | | |
| Liber/Page: | | | | | | |
| Last Sale Amt: | 0 | Las | t Sale Date: | | 11 | |
| PRE STATUS: | | | | | | |

| Delinquent Tax Information: | (Data current through 1/24/2012) |) |
|-----------------------------|----------------------------------|---|
|-----------------------------|----------------------------------|---|

^{***}Notice***Delinquent Tax Information DOES NOT include unpaid taxes on PERSONAL PROPERTY, please refer to your local Treasurer for information regarding this Issue.

| The Equalizer Copyright (c) 1999 - 2009. Licensed To: City of Hastings, County of Barry | Tax Description CYTY OF HASTINGS LOT 412. Comments/Influences | Owner's Name/Address COMMERCIAL BANK 101 N PINE RIVER ITHACA MI 48847 | Property Address | Parcel Number: 08-55-001-143-00 Jur Grantor Grantee MAINSTREET SAVINGS BANK F COMMERCIAL BANK LITTLE WILLIAM F & SHIRLE MAINSTREET SAVINGS |
|---|--|--|--------------------------------|---|
| 9 <u>\$</u> | Improvements Dirt Road Gravel Road Graved Road Paved Road Storm Sewer Sidewalk X Water | School: HASTINGS AREA SCHOOLS P.R.E. 08 MAP #: 2012 Est Tev Improved X Vacant La | Class: COMMERCIAL VACANT | isdiction: CITY OF H Sale Price 1 BANK F 58,000 |
| Land Improvement Cost Description D/W/P: Asphalt Paving Total Year Land Value 2012 Tentative 2011 55,000 2010 53,200 2019 62,600 | Description Frontage DWTN SECONDARY 66.00 DWTN SECONDARY 132.00 SQUARE FOOW STATE denotes lines that 198 Actual Front Feet, | POLE BII | Zoning: A-O Building Permit(s) | Count rate Ten Type DIS |
| Estimated Land: Estimated Land: Building Value Tentative 6,400 8,500 8,200 | Depth Front Depth 95.00 1.0000 0.0000 65.00 1.0000 0.0000 14853.96 Acres do not contribute to 14853.96 Total Acres | r Land Table 03.Down | ermit(s) | BARRY of Sale SSED SALE ERM LEASE |
| Size & 9519 Cash Va | Rate %Adj. Reason 870 100* 870 100* 7 100 the total acreage calculation. Total Est. Land Value = | Tor Land Table 03 DOWNTOWN BUSINESS DISTRICT | Date Number | Printed on Liber Verified & Page By 20110315000273 DEED/TRANS 683 308 DEED |
| Good Cash Value 69 12,478 lue = 12,478 Tribunal/ Taxable Other Value 53,548C 52,653C 52,812C | V: 111 105. | | Status | 01/17/2012 Pront. Trans. ANS AFF 100.0 |

^{***} Information herein deemed reliable but not guaranteed***



603 West Apple Street Hastings, MI 49058

Inquiry Number: 3248813.4

February 02, 2012

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography February 02, 2012

Target Property: 603 West Apple Street

Hastings, MI 49058

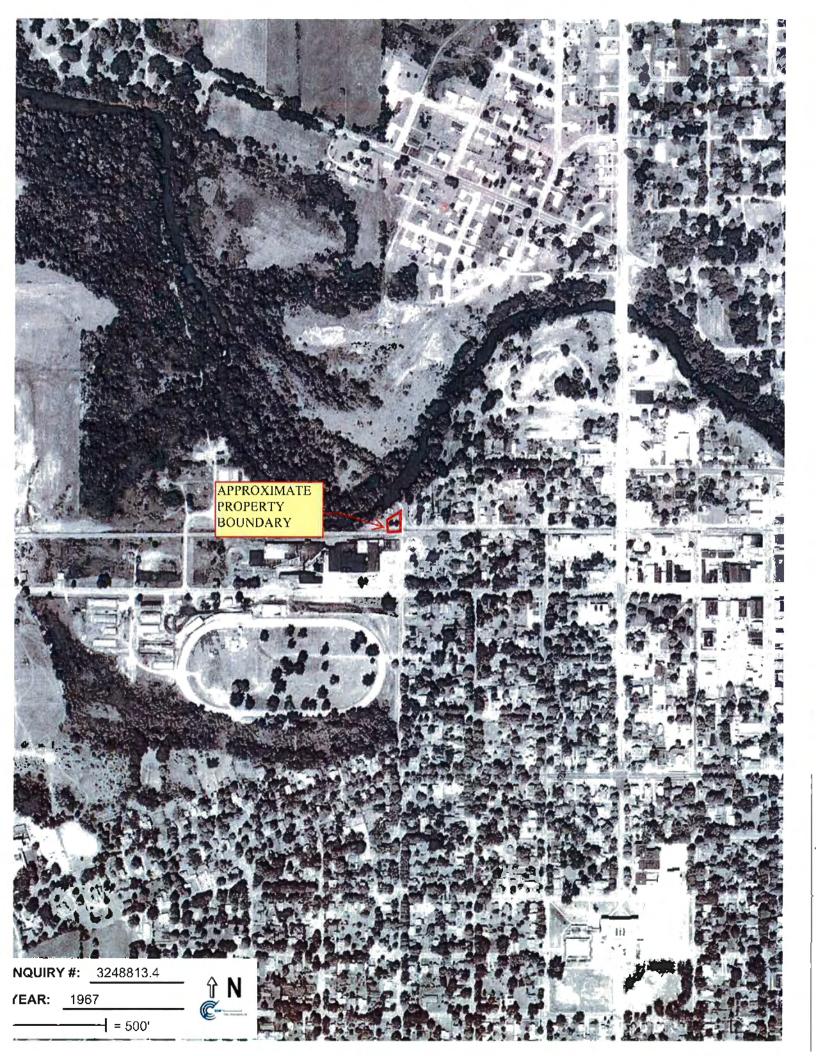
| <u>Year</u> | <u>Scale</u> | <u>Details</u> | <u>Source</u> |
|-------------|-----------------------------------|---|---------------|
| 1938 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1938 | ۸۸۸ |
| 1950 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1950 | PMA |
| 1955 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1955 | CSS |
| 1960 | Aerial Photograph. Scale; 1"=500' | Flight Year: 1960 | CSS |
| 1967 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1967 | ASCS |
| 1974 | Aerial Photograph, Scale: 1"=600' | Flight Year: 1974 | ASCS |
| 1981 | Aerial Photograph, Scale: 1"=600' | Flight Year: 1981 | NHAP |
| 1992 | Aerial Photograph. Scale; unknown | Flight Year: 1992 | FSA |
| 1998 | Acrial Photograph, Scale: 1"-500" | /Composite DOQQ - acquisition dates: 1998 | EDR |
| 2005 | Aerial Photograph. Scale: 1"=500' | Flight Year: 2005 | EDR |
| 2006 | Aerial Photograph, Scale: 1"-500' | Flight Year: 2006 | EDR |





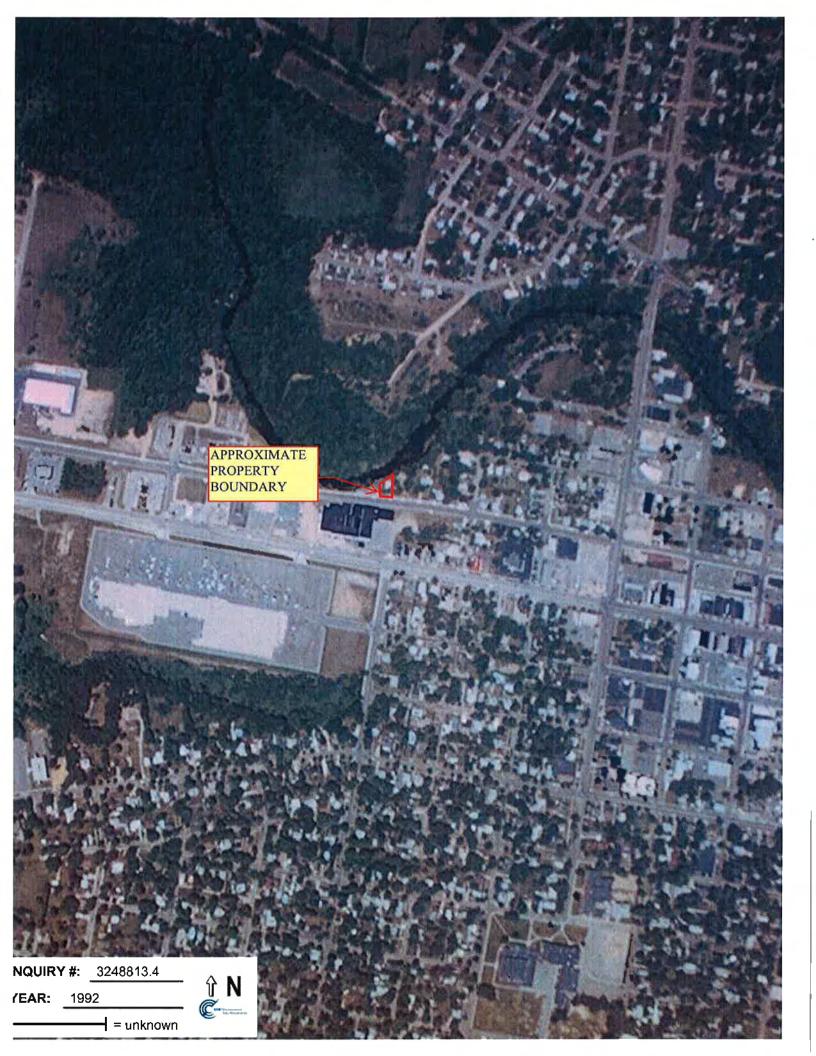




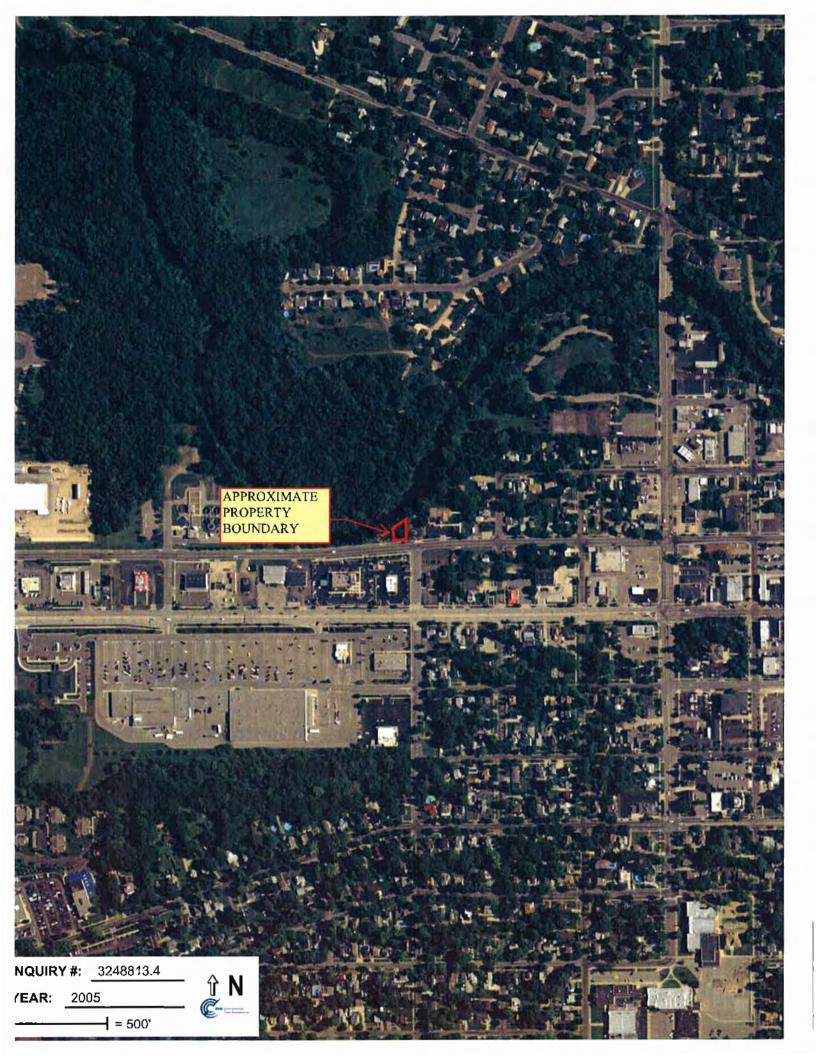














603 West Apple Street 603 West Apple Street Hastings, MI 49058

Inquiry Number: 3248813.5 February 02, 2012

The EDR-City Directory Image Report



TABLE OF CONTENTS

SECTION

Executive Summary

Findings

Thank you for your business.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

| <u>Year</u> | <u>TP</u> | Adjoining | Source |
|--------------|-----------|--------------------------|-----------------------|
| 2011 | | | Polk's City Directory |
| 2006 | | | Polk's City Directory |
| 2000 | | \square | Polk's City Directory |
| 1995 | | $\overline{\mathbf{V}}$ | Polk's City Directory |
| 1991 | | \square | Polk's City Directory |
| 1986 | | \square | Polk's City Directory |
| 1982 | | $\overline{\mathbf{A}}$ | Polk's City Directory |
| 1977 | | $\overline{\mathbf{A}}$ | Polk's City Directory |
| 1972 | | | Polk's City Directory |
| 1968 | | $\overline{\mathscr{A}}$ | Polk's City Directory |
| 1964 | | $\overline{\mathbf{Z}}$ | Polk's City Directory |
| 1959 | | $\overline{\mathbf{A}}$ | Polk's City Directory |
| 1954 | | | Polk's City Directory |
| 19 50 | | | Polk's City Directory |
| 1944 | | | Polk's City Directory |
| 1936 | | | Polk's City Directory |
| 1929 | | \square | Polk's City Directory |

RECORD SOURCES

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infoUSA

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FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

603 West Apple Street Hastings, MI 49058

TARGET PROPERTY FINDINGS

No Addresses Found

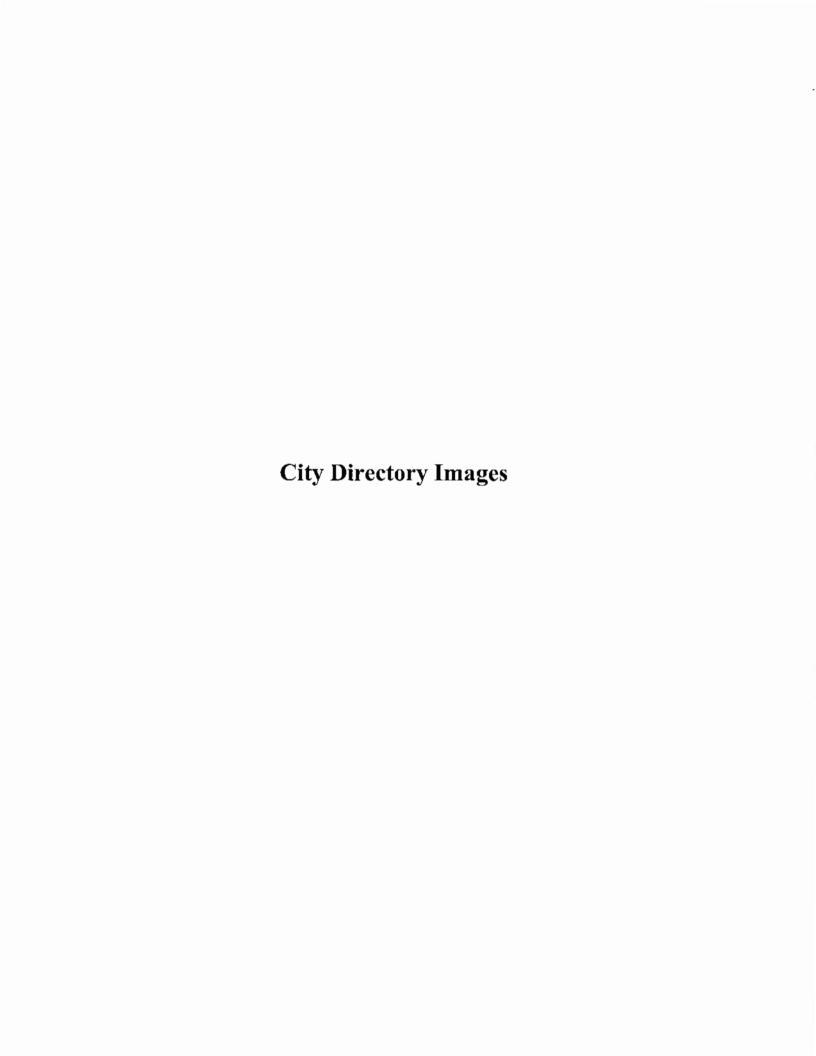
FINDINGS

ADJOINING PROPERTY DETAIL

West Apple Street

| West Apple Street Year | CD Image | Source | |
|------------------------|----------|-----------------------|--------------------------------------|
| 2011 | - | Polk's City Directory | Street not Listed In Research Source |
| 2006 | • | Polk's City Directory | Street not Listed In Research Source |
| 2000 | pg. A1 | Polk's City Directory | |
| 1995 | pg. A2 | Polk's City Directory | |
| 1991 | pg. A3 | Polk's City Directory | |
| 1986 | pg. A4 | Polk's City Directory | |
| 1982 | pg. A5 | Polk's City Directory | |
| 1977 | pg. A6 | Polk's City Directory | |
| 1972 | pg. A7 | Polk's City Directory | |
| 1968 | pg. A8 | Polk's City Directory | |
| 1964 | pg. A9 | Polk's City Directory | |
| 1959 | pg. A10 | Polk's City Directory | |
| 1954 | pg. A11 | Polk's City Directory | |
| | pg. A12 | Polk's City Directory | |
| 1950 | pg. A13 | Polk's City Directory | |
| 1944 | pg. A14 | Polk's City Directory | |
| 1936 | pg. A15 | Polk's City Directory | |
| 1929 | pg. A16 | Polk's City Directory | |
| | pg. A17 | Polk's City Directory | |

3248813-5 Page 3



<u>Year</u> 2000 <u>TP</u>

Adjoining

<u>Source</u>

Polk's City Directory

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| 323 Swife Therees M [3] | 945-3079 | 1135 Peck Thoma |
| 327 DRoberts Barbara 335 Not Verified 335 Girard Molly M | 948-3029 | Swift Daniel Swift Jody J 1190 Bivens Kenn |
| + N PARK ST INTERSECTS | | @Davis Mich |
| 415 Martin William E & Mary ⑨+. 418 Smelker John J ⑩+ ▲ 425 Christie Rex N ⑨+ | 948-9401 | 1310 Garrett Josep Markley Ryan |
| 429 Varney Marjorie J (1)+ 1 | 945-2178 | Markley Greg 1330 Girrbach Ray Girrbach Deb |
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| 525 WALKER & FLUKE PC accting a | | 1593@Snyder Rus |
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| 1072 Allen Suzanne | 948-3753 948-0435 | Herbig Carol ZIP CODE 49058 2020@De Pew Date |
| 1075@Axdorff Richard D | 948-0435 948-8803 | 2150@Denny Jeffe |
| Austhof Jack A | 948-8803 945-4404 EHOLDS 5 | 2181 Not Verified 2211 Lewis Robert Lewis Monica |
| ARTHUR CT (HASTINGS)-FROM 68: RD NORTHWEST | | Todd Joel J 2238 Power Rober |
| ZIP CODE 49058 CAR-RT R001 861 Larke Sue A 🖽 📤 | 945-4111 945-4111 | 2286 Jordan Charl 2287@Mahon Mich |
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Source Polk's City Directory

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| 795-9596 | | HASTINGS |
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| H | 948-2373 | 497 SCHWART |
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| Marie Land | 127 UNITED AUTO WORKERS NO 138 | 499 THORNAP |
| A TORNE | (CIO) MOTO WORKERS NO 138 | 509 GREG'S C |
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| 795-7022 | + N BROADWAY INTERSECTS | - ZIP CODE 4 |
| STATE OF THE PARTY | 309 Not Verified | 129@Halght Fr |
| 705 0004 | 321 Lancaster Merie G & Virginia 🗓+ 🌢 | 133 Lictica Verr |
| 795-9024 | 323@Bender Jason T & Sherry945-3079 | 139 Belson Kay |
| 795-3506 795-3506 | Bender Sherry K945-0067 | Balson Brit |
| .795-8828 | 327 HAIR PORT THE945-3382 | + FREEMONT |
| .795-8828 | 335@Domy Dohra A | |
| . TOO COLD | + N PARK INTERSECTS | ARTHUR CT (I |
| 795-9472 | 412 Not Verified | EDWARDS |
| | 415 Martin William E & Mary 22948-9401 | . ZIP CODE 49 |
| HOLDS 6 | 418 Smelker John J 🗹 🛦 | + NUMBERS IF |
| NORTH | 425 Christy 2 429 Varney Marjorle J 2 4 945-2178 | 524 Martin Nels |
| 2 | 457 Not Verified | 521 Pickard Do |
| | + N WASHINGTON INTERSECTS | 516 Timm Sue |
| 94 N | 505 REYNOLDS LAND SURVEYING & | 502 Scott Josep 514 Sisson Pau |
| | MAPPING945-3668 | 503 Bowerman |
| 11 | AMERICAN RED CROSS | 507 Oliver Jami |
| THE PARTY | 513-517 Not Verified (2 Hses) | * |
| | WALKER & FLUKE P C cpa's 945-9452 603 Little William F & Shirely 2 6 | 508 Looney Mic |
| .367-4325 | + NOT OPEN BETWEEN 603 826 | 509 Bedford Ke |
| .367-4325 | 825 COUNTY ANIMAL SHELTER 948-4885 | 303 Bedioid ive |
| .367-4170 | BUSINESSES 7 HOUSEHOLDS 17 | Bedford Lo |
| 387-4486 | ARLINGTON ST (MIDDLEVILLE)-FROM 326 | Bedford Bri |
| 007 4000 | MAIN ST NORTH | 508-511 Not Ve |
| .367-4026 | MAIN STRONT | 510 French Jan 512 Hart Dougli |
| 207-4020 | . ZIP CODE 49333 | |
| 367-4026 | 100 A-B Vacant (2 Apts) | |
| . Cur - TIGE | 100c Vacant | ARTHUR DR - |
| .367-4530 | 504@Mc Ghan | ANTHUN DIST |
| .367-4626 | 108@Verberkmoes William S & Angela A 795-0044 | . ZIP CODE 49 |
| | Verberkmoes Angela S795-0044 | 861 Larke Dary |
| .367-4012 | 112 Vacant | 900@Marks Lou Marks Nanc |
| Note that the | 115@Gouling James M & Kim | Marks Island |

| | West Apple Street | |
|---|--|---|
| Se date year. Set Malley and Every O BUY DIRECTORIES SAVE TIME AND MOR | APPLE ST E -FROM N JEFFERSON EAST 1 NORTH OF E STATE ZIP CODE 49058 | 112 vacant 115 Schaefer Ju Space Rick 202 Phillips Ivan 203 Balley Wm 1 JOHNSON ST |
| 29 | APPLE ST W -FROM 218 N JEFFERSON WEST ZIP CODE 49058 109 Ellsworth Raymond E @ 948-2373 121 Tobias Ada L Mrs @ 945-4063 127 United Auto Workers No 138 (CIO) 945-5234 | 205 No Return 207 Finkbeiner (795-7429 208 Ainsworth F 210 Smith Glady, 795-3543 214-2144 Vacant SHERMAN ST 303 State Bank o |
| | N CHURCH INTERSECTS 221 Wilson Myrtle M @ 945-4167 222 Grove Associates Inc 945-4266 Depot Law Offices-Wilbur & Byington lwyrs 945-9557 N BROADWAY INTERSECTS 309 Thomas Alice M | 795-3361 307 Bob's Engine & lawn imp 308 Gavin Car W 310 Taylor THORTON ST I 313-31314 Vacant |
| O Nashville, Mich. 49073 | 321 Lancaster Merle G @ 945-3079 323 Vanhouten Craig D 948-9185 327 Hair Port the 945-3382 N PARK INTERSECTS 412 Christianson Gail E 415 Kubek Joe A 945-3186 418 Smelker John J 425 La Dere Donna @ 429 Varney Marjorie Mrs 945-2178 457 Wait Donna J Mrs @ | 314 Baby Bliss Fa childrens clo 317 No Return 408 Bestrom Geral 411 Doornbos Rick 417 Tabor Aaron 419 Foster Kennet 420 No Return 428 Rybisk Robt J EDWARDS ST B |
| PHONE (517) 852-1900 | 945-3346 N WASHINGTON INTERSECTS 505 Bruce's Water Condit 945-5342 513 Rodenbeck 517 Vacant 525 Drake Doug 603 Smith Sandy @ 945-3462 NOT OPEN BETWEEN 603 825 825 County Animal Shelter 948-4885 | 436 Hastings City (Middleville C 491 Hospital Purch 795-3308 497 Booth Agency 795-3302 Miller Real E 499 Thornapple K 795-3672 509 Vacant |
| PHO | ARLINGTON ST (MIDDLEVILLE)-FROM 325 MAIN ST NORTH | ARNOLD ST (MIDDLEVIL) 515 E MAIN |

| | West Apple Street | |
|--|---|--|
| :30 P.M. Tels, 948-8046 & 948-81 | "WE ARE PE | COPLE WHO CARE" Ig Care For Everyone 49058 |
| P. W. | | 2 |
| MONDAY THRU SATURDAY 8:00 A.M 5:30 P.M. 304 N. Broadway St., Hastings, Mich. 49058 | W APPLE ST—Contd N CHURCH INTERSECTS 221 Wilson Myrtle M @ 945-4167 222 Depot Law Offices-Wilbur & Byington lwyrs 945-9557 N BROADWAY INTERSECTS 309 Robles Alexander J Jr 945-5483 321 Lancaster Merle G @ 945-3079 323*Wismont Pamela J 327 Hair Port The 945-3382 N PARK INTERSECTS 412 No Return 415 Harrington Jay 945-4254 418 Vacant 425 La Dere Donna @ 429 Varney Marjorie Mrs 945-2178 457 Wait Donna J Mrs @ 945-3346 N WASHINGTON INTERSECTS 505 Vacant | 214*Totten Laurie 214½ Vacant SHERMAN ST 302*Holtrust Bark 795-7585 303 Primebank Fe Bank 795-336 307 Bender's Sales garden & lav 795-9441 308 Norm's Service 891-1888 Jahnke Norms 795-9477 310 Vacant THORTON ST B 313*Hurley Steven *Stagray Gera 313½ Vacant 314 Baby Bliss Fac childrens clo 317 Finkbeiner Est |
| 11 0 | 513 Vacant 517 No Return | 408 Deaner Nellie : 795-3570 |
| P.O. Box 130 49058 | 525 Vickery Rowallen E @ 945-2838 603 Little Wm F @ 945-3138 825 County Animal Shelter 945-8245 NOT OPEN BETWEEN 603 & 825 APPLE | 411 Doornbos Richd 417 Longstreet Phil contr © 795-9 419 Foster Kenneth 420 Reynolds Letha 795-3678 428 Thornapple Val |
| (616) 945-3461 | ARLINGTON ST (MIDDLEVILLE)—FROM 325 MAIN ST NORTH ZIP CODE 49333 PO MIDDLEVILLE MI 100*Snow Blair 795-3903 100½ *Holes D 108 Vaccent | Hosp 795-9817 Adams Jeffrey EDWARDS ST BE 435 Hastings City B (Middleville Of 495 Hospital Purcha 795-3308 497 Booth Agency It 795-3302 Poll Gene Realty |
| (61) | 108 Vacant 112 Root Virginia H Mrs ⊚ 795-3635 | 499 Thornapple Kitcl 795-3672 |

Street: West Apple Street <u>Year</u> 1982 <u>TP</u>

<u>Adjoining</u>

Source Polk's City Directory

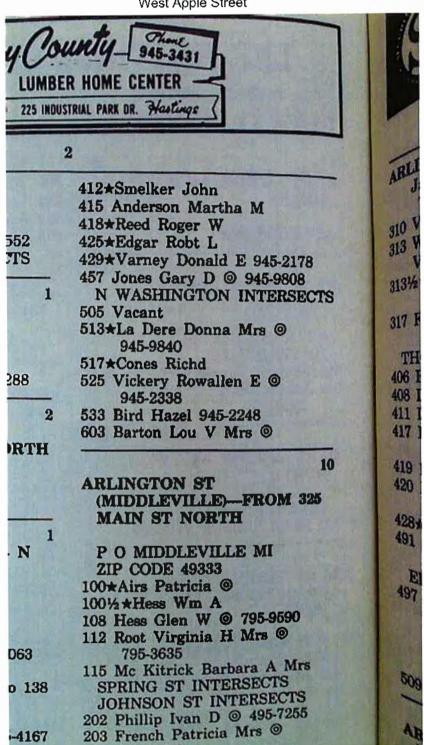
| 329 W. Mill St., H | astings, Mich. 49058 |
|--|---|
| | 2 |
| W APPLE ST—Co 121 Tobias Ada L I 127 United Auto W (CIO) 945-5234 N CHURCH INT 221 Wilson Myrtle 222 Shuster & Wilt 945-9557 N BROADWAY I 309 Kettman Denni 321 Lancaster Merl 945-3079 323 Foss Steph R 9 327 Hair Port The N PARK INTERS 412 Smelker John 415 Noviskey Norm 418*Keeler David I 425 No Return 429 Varney Marjor 457 Patch Donna E N WASHINGTON 505 Vacant 513 Wilkins Chas C 517 No Return 525 Vickery Rowall 945-2338 603 Little Wm F 6 825 County Animal 945-8245 NOT OPEN BET 825 APPLE ARLINGTON ST (MIDDLEVILLE MAIN ST NORT P O MIDDLEVIL ZIP CODE 49333 100 Reil James 100½*Beard Thom | ## Such that is a su |

Year 1977

<u>TP</u>

Adjoining

Source Polk's City Directory



| West Apple Street | |
|---|--|
| Essner Clifford H | JOHNSON S |
| 127 United Auto Workers No 138 | 202 Flitt Robt |
| (CIO) 945-5234 | 203 Tripp Rob |
| N CHURCH INTERSECTS | 205 # Dittman |
| 213 Rairigh Cath C Mrs 945-2237 | 207 Finkbeiner |
| 221 Wilson Myrtle M @ 945-4167 | 795-9205 |
| 222 Depot Law Offices The | 208 Eby Angus |
| 945-9557 | 210 Smith Ern |
| Shuster Richd M lwyr | 214 * Stratton |
| 945-9557 | 795-9814 |
| Rugg J R & Co acet 945-9662 | Crofoot Iris |
| N BROADWAY INTERSECTS | 214½ * Vaughn |
| 309 * Histed Maggie Mrs 948-8455 | SHERMAN S |
| 321 Lancaster Merle G ◎ | 302 Bardell Jan |
| 945-3079 | 303 Huss Charl |
| 323 t Anderson Able 945-3079 | 307 Bender's Si |
| 327 Peg's Beauty Bar 945-3385 | 308 Norm's Sal |
| 335 Vacant | equip 795- |
| N PARK INTERSECTS | Jahnke No |
| 412 * Martin Joe B @ 945-5490 | 795-3627 |
| 415 Bayne Clara I Mrs ® | 310 Vacant |
| 945-5338 | 313 Eggers Cha |
| 418 * Mc Knight Clara Mrs | Baker Russ |
| 425 Ryan Lawrence C @ 945-3153 | 3131/2 No Retur |
| 429 * Pattin Jerry J | 317 Finkbeiner |
| 457 Haywood Karen Mrs ® | 795-3361 |
| 945-9949 | THORNTON : |
| N WASHINGTON INTERSECTS | 406 Vacant |
| 505 Miller Plumbing & Heating | 408 # Deaner Jai |
| Inc 945-4454 513 Dowis Laura E Mrs ⊚ | 411 Doornbos Ri 414 T K Corral |
| 948-8284 | 417 Smith Nurs |
| 517 + Cowles Marlene K Mrs | Smith Harr |
| 945-2228 | 419 O'Loughlin |
| 525 Vickery Rowallen E ® | 795-9512 |
| 945-2338 | 420 Reynolds Le |
| 533 Demaray Vleit L sheep | 795-3678 |
| 045 9948 | 428 Higgins Jam |
| 603 Oliver Charles L @ 945-2387 | EDWARDS ST |
| 631 City Sewage Pumping Sta | the state of the s |
| | DESCRIPTION OF A STATE OF |

Polk's City Directory

| West Ap | ple Street |
|--|--------------------|
| 221 WILSON | MYRTLE M . |
| 945-4 | 101 |
| N BROAD | WAY INTERSECTS |
| 309 BEACH | CLARE L . 208 |
| 945-4 | 365 |
| | TER MERLE G 210 |
| 945-3 | |
| 323 STICKL | ER JESSE J 302 |
| 327 JOHN 9 | HOME APPLIANCE 303 |
| SERVI | CE TELEV REPR |
| 945-5 | |
| 335 SMITH | THEO E 945-2092 |
| | INTERSECTS 308 |
| 412 JAY MA | |
| 945-5 | |
| 415 GAYNE | CLARA I MRS |
| 945-5 | 313 |
| 418 VACANT | |
| 425 RYAN L | AWRENCE G . |
| 945-3 | 1153 |
| 429 VARNET | DONALD E . |
| 945-2 | 2178 317 |
| 457 HAYWOO | DD ROBT . |
| N WASH | INGTON |
| | ERSECTS 406 |
| 505 MILLE | R PLUMBING & |
| | ING 945-4454 408 |
| | CLAUDE P . |
| The state of the s | MABLE I MRS 411 |
| 945- | |
| | RY RUBALLEN - |
| 945- | 2338 |
| 533 DENAR | AY VLEIT L SHEEP |
| A STATE OF THE PARTY OF THE PAR | KER 943-EE-10 |
| | R CHARLES L . |
| | 2387 |
| 611 VACAN | |
| | SEWAGE PUMPING |
| STA | ARNO |
| | CM |
| | 10 E |
| ARLINGTON | |
| ARLINGTUN | 31Z |

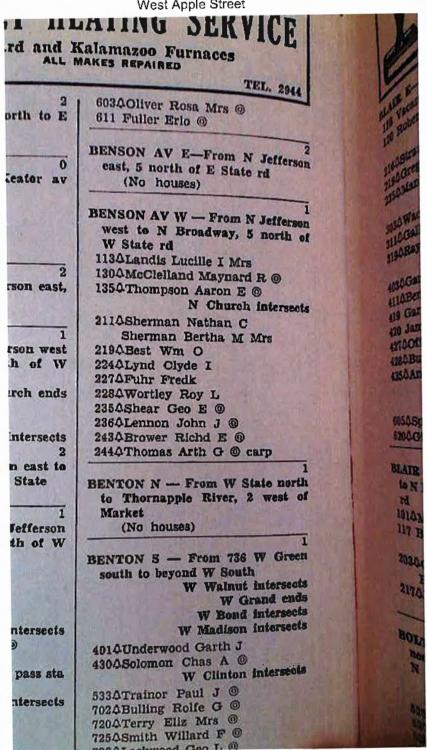
Polk's City Directory

| - | West Apple Street | water Huj |
|--------------|--|-----------------------------|
| A CONTRACTOR | APPLE E-From N Jefferson east to N Michigan, t north of E | 1883 Hastin W16 Bloss |
| ATY | State State | 1637 Vacan 1909 Roll-A |
| ED | APPLE W-From 130 N Jefferson | 1909 % Rad |
| DS | west to city limits, I north of W | BENSON / |
| IAL | State 100 Zimmerman Mary W Mrs | son west |
| ES | 117 Tobins Adn L (i) WIS-4063 | of W Sta 113 White |
| ALL | 121 Essner Clifford H 127 United Auto Wkrs No 138 | 120 McClell |
| IONS | (CIO) WI5-5234 N Church Intersects | 135 Wilfons |
| one | 213 Kidder Eug jr @ WI5-2904 | N Church I |
| SOF | 214 Vacant 221 Wilson Myrtle M @ WI5-4167 | 211 Sherma 219 Nichols |
| 73 | N Brondway Intersects | 224 Chrysle 228 Humpre |
| (TOUR | 309 Beach Clare L @ WI5-4365 315 Abel Carl F @ 945-2453 | 235 Vacant |
| e's | 321 Lancaster Merle G 945-3079 | 236 Colvin : 243 Murphy |
| - | 323 Stickler Jesse J 327 John's Home Appliance Serv | 244 Riedi Jo |
| ke | WI5-5091 | N Glenwood N Broadway |
| | 335 Martz Alf D WI5-9192 N Park intersects | N Dionaway |
| op | 412 Jay Marland @ 945-5490 | BENTON N |
| S. | 415 Totten Priscilla Mrs 418 No return | to Thorn |
| SON | 425 Ryan Lawrence G @ W15-3153 429 Varney Donald E @ W15-2178 | |
| | 457 Haywood Robt R @ WI5-2237 N Washington Intersects | BENTON S |
| | 505 Miller Pimb & Htg WI5-4454 | 401 Bera Zu 430 Long Ra |
| | 513 Vacant 525 Vickery Rowallen E @ | W Walnut in |
| 1000 | 945-2338 533 Demary Viett L @ sheep | 633 Trainor |
| 1114 | shearer W15-2248 | W Bond into |
| ult | 603 Oliver Chas L @ WI5-2387 611 No return | 703 Hall Ro |
| | 2 | 720 Edger L 725 Smith |
| | BACHMAN ROAD - From 613 E | 728 Lockwood WI5- |
| FIED | Woodland av north | w Madison |
| LIED | BEDFORD ROAD — Continuation | 804 Thorson 811 Leary Jo |
| 3 | of 8 Innover beyond city limits | 812 Czinder 819 Fuller H |
| 9 | 1501 Flagle Gertrude E Mrs (1) W/15-2079 | 822 Bender (945-2 |
| he | 1560 Reed's Modern Motel | Bender . |
| 110 | W/I5-4182 Reed W Dewey ® WI5-4182 | 825 Hug The W Clinton in |
| FORV | 1600 Barry's Farm Store farm | 902 Myers Ge |

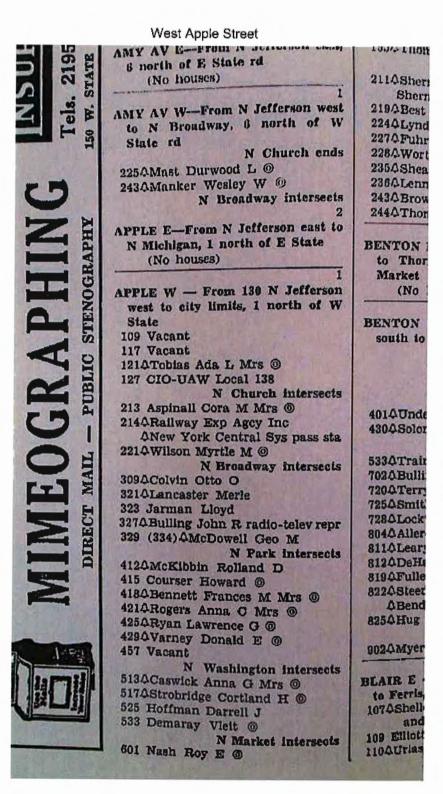
West Apple Street

| 1 | 1830 Farm Bu |
|---|--|
| | PARA THE HIT THE |
| APPLE W - From 130 N Jefferson | A WIS |
| west to city limits, I north of W | 1909 Hastings |
| State | 10091/2 W B C |
| 100 Vacant | A WIS |
| 117 Tobias Ada L Mrs (6) | |
| 121 Essner Clifford H A WI5-4063 | A Secretary |
| | BENSON AV |
| 127 CIO-UAW Local 138 N Church intersects | west to N B |
| N Chillen Interaction | State rd |
| 213 Kidder Eug jr (1) A W15-2904 | 113 Wilson A |
| 214 Railway Exp Agey Inc | 130 McClella |
| 4 WI5-3315 | A WIS |
| New York Central Sys pass sta | 135 Willong |
| 221 Wilson Myrtle M @ | A WI |
| A WI5-4167 | |
| N Broadway intersects | 011 Charmon |
| 309 Babb Enos A | 211 Sherman |
| 321 Lancaster Merle 4 WI5-3079 | A WIS |
| 323 Pennington John | 219 Vacant |
| 327 John's Home Appliance Serv | 224 Cardinal |
| A WI5-5091 | 227 Dove Et |
| 329(334) Howard Bertram | A WI5 |
| N Park intersects | 228 Raulston |
| 412 Jay Marland @ | 4 WI5 |
| 415 Courser Howard C @ | 235 Stankus |
| A W15-3242 | A WIS |
| 418 Bennett Frances M Mrs ® | 236 Tomlinso |
| Δ WI5-4357 | A WI5 |
| 421 Rogers Anna C Mrs ® | 243 Burdick |
| Δ W15-5062 | 4 W15 |
| 425 Ryan Lawrence G @ | 244 Moore Es |
| A WI5-3153 | |
| 429 Vamey Donald E @ | |
| Δ W15-2178 | BENTON N- |
| 457 McDowell Geo A | to Thornap |
| N Washington intersects | Market |
| 513 Caswick Anna G Mrs @ | |
| A TITLE DIED | The state of the s |
| 517 Strobridge Winifred B Mrs ® | BENTON S - |
| 4 WI5-3867 | south to bey |
| 525 Damaray Ran @ A W15-2338 | 401 Bera Glei |
| 525 Demaray Ben @ A WI5-2338 533 Demary Vielt @ A WI5-2248 | 430 Solomon |
| 601 Vacant | |
| 603 Oliver Chas L @ A WI5-2387 | THE PARTY OF THE P |
| 611 Fuller Erlo ® | 633 Trainor I |
| orr rance Bill @ | |
| 2 | 702 Bulling R |
| BACHMAN ROAD — From 613 E | 703 Hall Roy |
| Woodland av north | A W15- |
| 0 | 720 Terry Ell |
| BANTA—From Spruce west to Pine | 4 WI6- |
| one north of Curtis | 725 Smith W |
| 104 Yunge Steven M barber | A WI5- |
| 107 Challe Warman A | 728 Lockwood |
| 107 Skalla Herman A 110 Kasond Henry R gro | 4 WI5- |
| 116 Fabbel Roy L real est | |
| | 804 Allerding |
| | A W15- |
| BEDFORD ROAD — Continuation | 811 Leary Joh |
| of S Hanover beyond city limits | 812 DeHaven |
| 1501 Flagle Gertrude @ A WI5-2979 | A WIS- |
| 1560 Reed's Modern Motel | 819 Fuller Hu |
| 4 WI5-4182 | Δ W15- |

West Apple Street



Polk's City Directory



| | West Apple Street | |
|---|---|---|
| | AMY AV W-From N Jefferson west to N Broadway, 8 north of W | south to beyone |
| ice PHONE 2119 | State rd N Church ends 225 A Hutchins Delwin L ® 226 A Tyndall Alf ® N Broadway intersects | W 401AUnderwood 430ASolomon Cl |
| Service | APPLE E—From N Jefferson east to N Michigan, 1 north of E State (No houses) | 533ATrainor Par 702ABulling Rol 720ATerry Eliz |
| WAS ARREST OF THE PARTY OF THE | APPLE W-From 130 N Jefferson west to city limits, 1 north of W State | 725ASmith Will 728AGanguillet 804 Allerding At 819ALarabee Le |
| NTIAC and CADILLAC Motor Cars Sales and Specialized Repairing on All Makes Automobiles | 109 Pennington Herman J 121 A Tobias Ada L Mrs @ 127 Hudson Gerald motorcycles N Church intersects | 8220Adams Jas 825 Bliss Howar 9024Myers Geo |
| Sal | 213 Aspinall Cora M Mrs ® 2140Railway Exp Agcy Inc Anew York Central Sys (pass | BLAIR E — Fro |
| Cars | sta) 221¢Wilson Myrtle M ® N Broadway intersects | 107\Delta Shellenbarg 109\Delta Perry Robt 110\Delta Andler Elm |
| Motor Cars | 309¢Moore Jas A 321 Kemski Edw A 323 Foote Loren 327¢Bulling John R radio repr | Patten Mau 1140Roberts Da N Mic 2164Crawford V |
| On A | 329 (334) McDowell Geo M N Park intersects 412 AMcKibbin Roland D | 2194Gregory Ge 2354Manker Ber 303 Wachter Ca |
| LLA | 415 Allen Howard W jr 418 ABennett Frances M Mrs © 421 ARogers Chas R © 425 ARyan Lawrence G ® | 319 Rayner A Iro N 403AHall Darrel 411ABenner Ena |
| C and CADILLAC Specialized Repairing | 429∆Bulling John R ⊚ 457∆Karcher Ella Mrs ⊚ Shupp Minor N Washington intersects | 419 Mead Sarah 420 James Chas 427 Offiey Chas 428 Burr Wm h |
| nd C | 500 Vacant 5134Caswick Anna G Mrs ® 5174Manee Arleen M Mrs ® | 435 Andrews Ra |
| C ar | 525 Taylor Richd E @ 533 Smith Elmer E @ N Market Intersects | 600 Vacant 605 A Spence Wm |
| TTIA | 601 Oliver Leo J @ 603 Oliver Chas L @ 611 Fuller Erlo @ | to N Broadway, rd 1010Eggleston H |
| PON | BENSON AV E—From N Jefferson east, 5 north of E State rd (No houses) | 117 Bronson Ell 203ASwan Emme |
| PO PO N. MICH | BENSON AV W—From N Jefferson west to N Broadway, 5 north of W State rd | 217AHlscuut Day N B BOLTWOOD N - |
| 107 | 1130Lane C Sylvester ® 1300Hilliker Vern L N Church Intersects | north to Wood N Jefferson |
| M | 2114Sherman Nathan Sherman Richd C trucking 2194Keeler Donald A @ 2244Lambert Robt 2274Thomas Richd @ | 520\[ALAWrence Cl\] 527\[ALAWrence Cl\] 538\[ALAWrence Arti\] 542\[ALAWrence Keith\] 542\[ALAWrence Keith\] |

DEPENDABLE INSURANCE

보

KEIHL HDW.

8

NASHVILLE

OFFICES

Palk's City Directory

West Apple Street

1944

1944, by R. L. Polk & Co.

treets are arranged in alphabetical order, the h. The number of each building on the street d opposite the number is placed the name of or tenant. In the business blocks containing wn by room numbers where practicable, in denotes the number of the apartment. In all are included in one list. The profession or is is given only at their respective place of others refer to Alphabetical List of Names. piled in with Named Streets in their regular

householder's name indicates that we have the canvass that the house is owned by some the publisher cannot and does not guarantee tion furnished, nor the complete absence of errors can be or is assumed, nor can the mation than that shown.

denotes householders and places of business

| heast, | 214-22\(Delta\) New York Central Sys pas sta |
|--------------------|---|
| | 221 Streeter Herbert W |
| east, | N Broadway intersects |
| | 3094Scudder W Lyle |
| ame. | 321 Gray Gordon H 323 Foote Loren |
| 1 west | 334 Benton Wayne F |
| of W | N Park intersects |
| ends | 415 Colburn Leo H |
| 32.00 | 418 Dennett Frances M @ |
| east, | 421 A Rogers Chas R @ |
| THE PERSON | 425⊅Ryan Lawrence G ⊚ 457 Fifield Sidney P ⊚ |
| west | 500 Woodman Carol |
| State | 513 Belson Howard E @ |
| THE REAL PROPERTY. | 525 Fuller Erlo H @ |
| wood- | N Market intersects |
| rsects | BENSON AV E-From N Jefferson |
| 343 686 | east, 5 north of E State rd |

3248813.5 Page: A14

<u>Year</u> 1936 <u>TP</u>

<u>Adjoining</u>

Source Polk's City Directory

West Apple Street

e Street and Avenue Guide

1936

right, 1936, by R. L. Polk & Co.

ist the atreets are arranged in alphabetical order, being shown. The number of each building on americal order, and opposite the number is placed bants or houseowner or tenant. In the business tes the occupants are shown by room numbers partment homes the number denotes the number all streets both sides of the street are included in ion or business of individuals or firms is given a place of business; to find occupation of others a sist of Names.

are compiled in with Named Streets in their rder.

names denote telephones.

bllowing a householder's name indicates that we tion during the canvass that the house is owned he family, but as the publisher cannot and does rrectness of the information furnished, nor the sistakes no responsibility for errors can be or is publisher furnish further information than that

| e ne, opp E | 214-22 Michigan Central Railroad Chicago Kalamazoo & Sagi- naw Railroad Pass Sta 2154 |
|-----------------------------|--|
| N Jefferson tate rd (No | 221 VanDugteren Mary K Mrs N Broadway intersects |
| N Jefferson . 6 north of | 309 Scudder Lyle W 321 Kelly Minnie J Mrs ® 323 Green Edw T 2365 334 Hecker Eldon R |
| Church ends | N Park intersects |
| lierson east, | 418 Gingrich 'Arron 421 Vacant 425 Ryan Lawrence G @ |
| fferson west of W State | 429 Miller Maude Stella Mrs © 457 VanSchoten Stella Mrs © N Washington intersects |
| h intersects A 2198 | 513 Warner Willard J © 525 Warren Elza F N Market intersects |

<u>Year</u> 1929 T<u>P</u>

Adjoining

Source

Polk's City Directory

West Apple Street

PALMER'S DRUG S

"A Penslar Store"

Our Malted Milks Are Famou

108 W. State St.

Hastings, Mich.

110

(1929) R. L. POLK & CO.'S

APPLE W—Contd 525 Martz Levi @

N Market intersects

BENNETT — From Railroad north, 1 east of Allen (No houses)

BENSON AV E—From N Jefferson east, 5 north of E State rd (No houses)

BENSON AV W—From N Jefferson west to N Broadway, 5 north of W State rd ns Lane Sylvester @ 3635
N Church intersects
210 Thomas Arth G @ 212 Bunnell Otis @ 3675
214 Abbott Debbie Mrs ns 2 e Basler Maggie Mrs @ ns 1 e Manker Dayton

BENTON N — From W State north to Thornapple River, 2 west of Market

(No houses)

BENTON S—From 736 W
Green south to city limits
W Walnut intersects
W Grand ends
W Bond intersects
W Madison intersects
430 Solomon Chas © 3426
W Clinton intersects
W Marshall intersects
W South intersects
902 Myers Geo H @ 3636

435 Rose Le

N Wilse 600 Flory Os

west to N north of W 117 Bronson N Cl

203 Fuller L 217 Kuempe

BOLTWOOD
Mill north
2 cast of N
E T

es First W

520 Savacoo 527 Ransom

538 Houvene 542 Newton

E Stat 612 Burgess 3274

620 Newton 3318

624 Colvin 8 625 Bronson

719 Abbey L 729 Hawking 806 Vacant

> E G E Muri E Benn E An

Harren va

1929

Polk's City Directory

West Apple Street

of Householders, Office s and Business Places Street and Avenue Guide

1929

right, 1929, by R. L. Polk & Co.

fist the streets are arranged in alphabetical order, streets being shown. The number of each buildven in numerical order, and opposite the number of the occupant or householder. In the business ices the occupants are shown by room numbers all streets both sides of the streets are included ession, business, etc., of individuals and firms are espective place of business; to find occupation of Alphabetical Lst of Names.

ty Owner. Numerals refer to telephone numbers

| State ne, | 214-22 Michigan Central Railroad and Chicago |
|---------------------|--|
| 1 N Jeffer- | Kalamazoo & Sagi- naw Railroad Pas- senger Station |
| | Railway Express Agcy 221 McTravy John © 3362 N Broadway intersects |
| a N Jeffer- | 309 Slattery Ray @ |
| roadway, 6 | 321 Kelly Minnie Mrs @ |
| te rd | Wilcox Chas E |
| nurch ends | 323 Rogers Clara Mrs © 3131 |
| SOUTH ONE THE PARTY | 334 Partridge Milo |
| V Jefferson | N Park intersects |
| E State | 415 Jones Jas P |
| | 418 Keeler Earl C @ |
| N Jeffer- | 421 Hitchcock Wm A 3262 |
| y limits, 1 | 423 Smith Forest G |
| te | 429 Miller Maude Mrs @ |
| Miller Street Land | 457 VanSchoten Stella Mrs |
| M | 0 |
| ıg | N Washington intersects |
| intersects | 513 Warner Willard J @ 2136 |

603 West Apple Street

603 West Apple Street Hastings, MI 49058

Inquiry Number: 3248813.3

January 31, 2012

Certified Sanborn® Map Report



Certified Sanborn® Map Report

1/31/12

Site Name:

Client Name:

603 West Apple Street 603 West Apple Street Hastings, MI 49058

Soil & Materials Engineers 43980 Plymouth Oaks Plymouth, MI 48170

DR® Environmental Data Resources Inc.

EDR Inquiry # 3248813.3

Contact: Lauren Armeni

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Soil & Materials Engineers were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name:

603 West Apple Street

Address:

603 West Apple Street Hastings, MI 49058

City, State, Zip:

Cross Street:

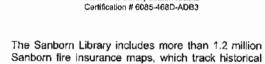
NA

P.O. # Project:

NA

Certification #

6085-468D-ADB3



property usage in approximately 12,000 American

Sanbom® Library search results

Library of Congress

cities and towns. Collections searched:

University Publications of America

EDR Private Collection

The Sanborn Library LLC Since 1866™

Maps Provided:

1949

1928

1916

1909

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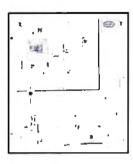
Sanborn Sheet Thumbnails

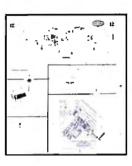
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1949 Source Sheets





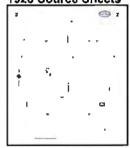


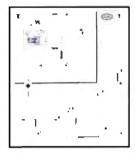
Volume 1, Sheet 2

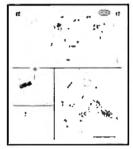
Volume 1. Sheet 7

Volume 1, Sheet 12

1928 Source Sheets







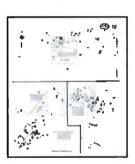
Volume 1, Sheet 2

Volume 1, Sheet 7

Volume 1, Sheet 12

1916 Source Sheets





Volume 1, Sheet 5

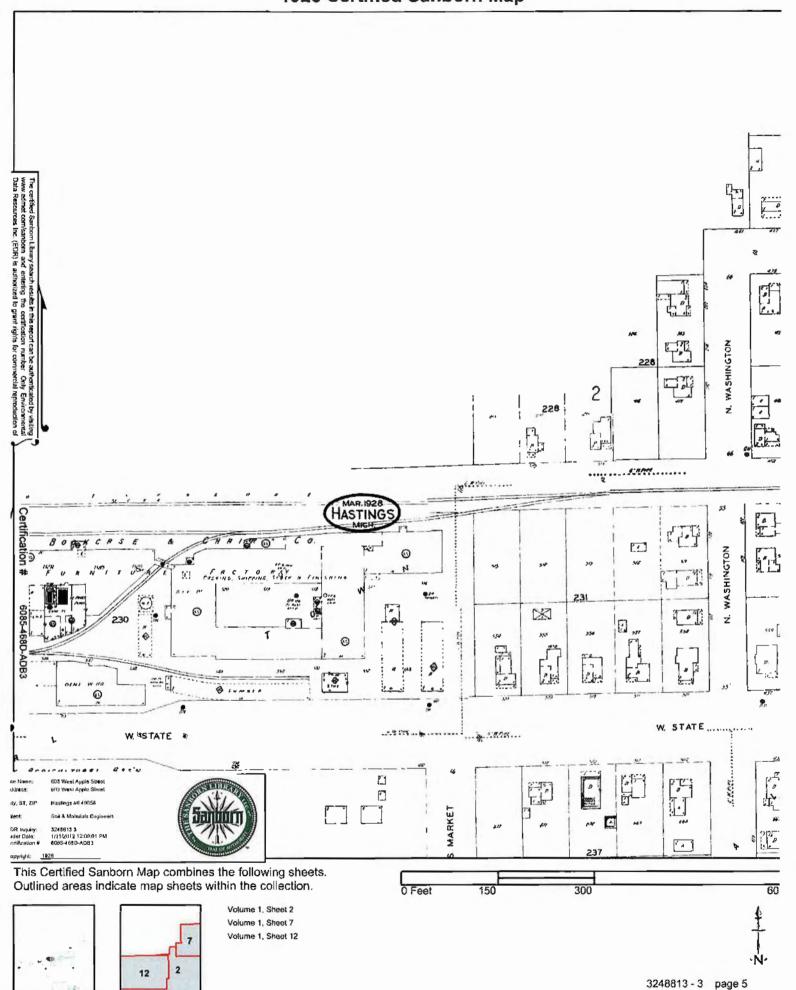
Volume 1, Sheet 12

1909 Source Sheets

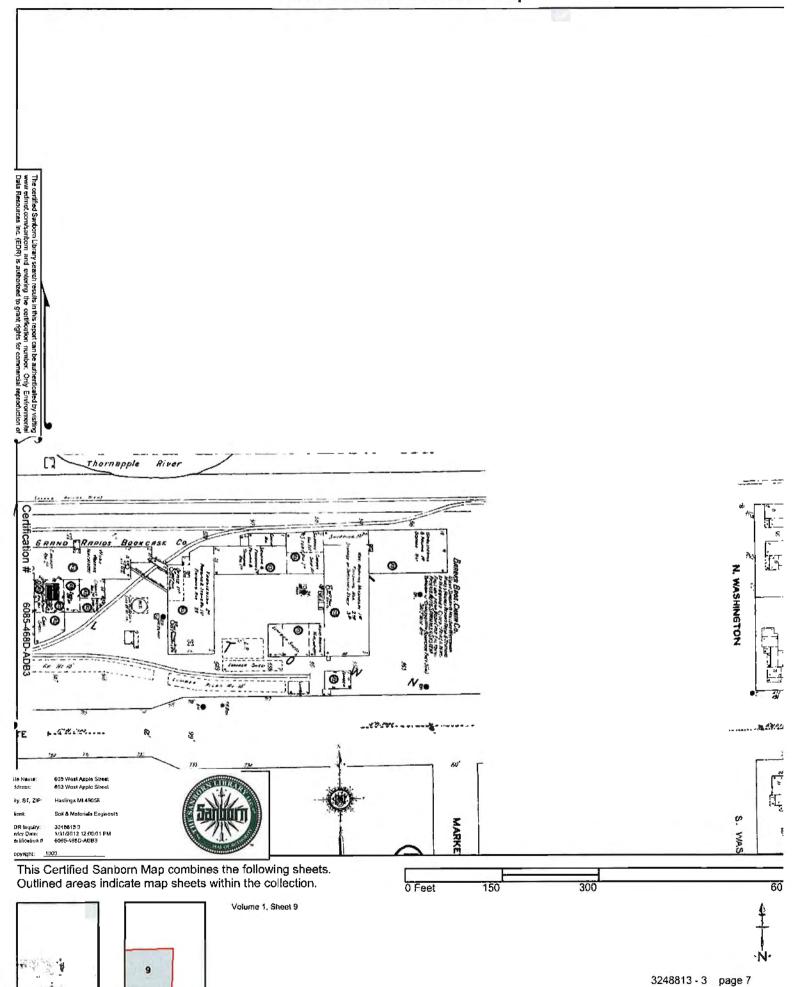


Volume 1, Sheet 9









APPENDIX C INTERVIEW DOCUMENTATION USER QUESTIONNAIRE OWNER/OCCUPANT QUESTIONNAIRE

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PHASE I ENVIRONMENTAL ASSESSMENT – ALL APPROPRIATE INQUIRY USER QUESTIONNAIRE

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the Brownfields Amendments to CERCLA), the User of a Phase I Environmental Site Assessment (ESA) must consider the issues discussed below as part of the User's All Appropriate Inquiry (AAI) to identify Recognized Environmental Conditions (RECs) associated with the Property. This information should be provided to the Environmental Professional conducting the Phase I ESA so that a complete report can be issued.

The User may decide not to provide this information to the Environmental Professional; however, the absence of the information will be noted in the Phase I ESA report and may affect assessment conclusions. Under these circumstances, it will be the User's responsibility to determine if the Phase I ESA results, combined with results from the tasks described below, is sufficient to satisfy the requirements of All Appropriate Inquiry as defined by federal statute and regulation.

Instructions:

- 1. Fill in all blanks.
- 2. Indicate "NA" (not applicable), if appropriate.
- 3. Attach additional pages with your signature if additional space is required.

| Property Name: | 603 West Apple Street |
|-----------------------|--|
| Property Location: | Hastings |
| County: | Barry State: Michigan City of Hashwes |
| Questionnaire Comp | Barry State: Michigan City of Hastines leted By/Title: JOHN J. HAST Community DEVELOPMENT DIRECTOR |
| Company/ Phone Nu | mber: City of HASTINGS 269 945 2468 |
| On Behalf Of (if appl | icable): |
| Planned Date of Purc | hase/Lease (circle one): |
| Time Period of Site k | Inowledge: 5 YEVES |

1. Reason for Phase I ESA

| Environ | ımental Pro | quested Phas ofessional. C | therwise, | it must be | e assume | d that the rea | ison is to qu | alify for a | |
|-----------------------------------|---|--|--|--|-----------------------------------|-----------------------------|----------------------------|--|-----------------|
| CERCL | A liability. | Please indi | cate the re | eason for t | this Phase | e I ESA of th | e Property. | | |
| | æ/ | Dua diliana | /15-1-5154 | | E | | Drawastu | | |
| | | Due diligen | • | • | • | | • • | | |
| | | Due diligen | | • | on for lea | ise of the Pro | репу | | |
| | L | Mortgage lo | | nance | | | | | |
| | | Foreclosure | | | | | | | |
| | | Other; expla | ain | | - | | | | |
| 2. 1 | Recorded 1 | Environmen | stal Clean | up Liens | and Act | tivity/Use Li | mitations | | |
| ascertain Property environi | nable recor y and if any mental imp | sible to asce ded land and activity or u act. You ma ly ascertaina | l judicial r use limitat ay engage | ecords, if ions (AU) a title cor | 'any envi Ls) have npany or | ronmental li been placed | ens have be on the Prop | en filed or erty becau | n the use of |
| | | ed, or arrange se restriction | ns would b | | | ew of land tit | ile records i | n which re | corded |
| | H | | | No | | | | | |
| 1 | If yes, plea | se specify w | ho conduc | ted the re | view: | BELL | TITL | | _ |
|] | If yes, plea | se specify the | e types an | d location | s of reco | rds reviewed | DEE | DS & | <u>T</u> *X \$ |
| | n your pers | sonal knowle ast the proper | dge and re | eviews of | title reco | rds, are you | aware of an | y envirom | mental |
| | | Yes | | No | | | | | |
| 1 | if yes, expl | ain briefly;_ | V | | | | | | - |
| - D1- | | | | | Calala va | | | ······································ | |

Based on your personal knowledge and reviews of title records, are you aware of any activity and/or use limitations, such as engineering controls, land use restrictions, or institutional controls, that are in place at the property and/or have been filed or recorded in a registry under federal, tribal, state, or local law?

| | SME Project No. 061192.01 |
|---------------------------------|---|
| | □ Yes № No |
| | If yes, identify the land use limitations/restrictions: |
| | |
| | |
| 3. | Specialized Knowledge and Experience |
| Speci could environthe Pr | specialized knowledge or experience of the User that could indicate, or create suspicion of, the nice environmental contamination on the Property must be considered as part of the AAI process, alized knowledge or experience includes familiarity with historic activities on the Property that result in environmental impact, personal knowledge or experience that would indicate a risk of commental impact associated with past Property uses, knowledge of the environmental history of roperty, and any other information that could indicate environmental impact or threat of commental impact on the Property. |
| | e User of this environmental site assessment, do you have any specialized knowledge or ience related to the Property or adjoining properties? |
| | □ Yes □ No |
| | If yes, explain briefly: |
| | |
| | |
| 4. | Relationship of Purchase Price to Value |
| value prope | rically, environmentally contaminated properties often have been sold at prices below market to entice buyers to acquire the property, contamination, and resultant liabilities; therefore, if a rty's sale price is significantly below market value without any obvious impairments or reasons e reduced price, the potential for environmental impact as a cause of the reduced price must be ated. |
| Does prope | the purchase price being paid for this Property reasonably reflect the fair market value of the rty? |
| | □ Yes No |
| | re is a significant negative difference, can you identify the reason for the reduced price versus? If "No" the Property may be assumed to be contaminated. |
| | O Yes No |
| | If yes, explain briefly: THE OWNER NO LONGER NEEDS THE PROPERTY AND WOULD LIKE TO DONATE IT TO THE CITY AS DART OF THE SECOND PHASE OF TRAIL DEVELOPMENT WHICH WILL PASS |

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5. Commonly Known or Reasonably Ascertainable Information

| | □ Yes No |
|----|--|
| | If yes, explain briefly: |
| 6. | Proceedings Involving the Property |
| | you, the User of this environmental site assessment, based on your knowledge and experience ted to the property, have any knowledge of any of the following: |
| | Pending, threatened, or past litigation related to hazardous substances or petroleum products in, or or arising from the Property? |
| | □ Yes B No |
| | If yes, explain briefly: |
| | |
| • | Pending, threatened, or past administrative proceedings related to hazardous substances of petroleum products in, on or arising from the Property? |
| | □ Yes No |
| | If yes, explain briefly: |
| | |
| | Notices from any governmental entity regarding any possible violation of environmental laws or regulations or possible liability relating to hazardous substances or petroleum products in, on or arising from the Property? |
| | □ Yes ☑ No |
| | If yes, explain briefly: |

Signature

PHASE I ENVIRONMENTAL ASSESSMENT (ESA) PROPERTY OWNER/OCCUPANT QUESTIONNAIRE

This questionnaire concerns the current and historical uses and conditions of the referenced property and will be included within the Phase I ESA report. Questionnaire answers should be based upon the owner/occupant's reasonable knowledge of current and historical use and activities at the property.

Instructions:

- 1. Fill in all blanks.
- 2. Indicate "NA" (not applicable), if appropriate.
- 3. Attach additional pages with your signature if additional space is required.

| Property Name: Commercial Bank | |
|--|-----|
| Property Name: Commercial Bank Property Location: 603 W. Apple St. | |
| County: Brorry State: Michigan | |
| County: Brorly State: Michigan Questionnaire Completed By/Title: Tim Kelly Community Pres | den |
| Company/ Phone Number: 269-945-9561 | |
| On Behalf Of (if applicable): | |
| Year of Purchase/Lease (circle one): | |
| Time Period of Site Knowledge: Since 1984 parking lot | |
| Names/Phone Numbers of Former Owners/Occupants: | |
| Owners: Morio Street Brook | |
| Occupants: | |
| Names/Phone Numbers of other persons who have knowledge of property history: | |
| Property Description and Use | |
| 1. Provide a general description of the property: | |
| ☐ Undeveloped ☐ Vacant ☐ Wooded ☐ Buildings ☐ Other | |
| 2. Describe the structures present on the property (number, size, and construction date): | |
| Parking lot | |
| • | |

| | SME Project No. |
|-----|---|
| 3. | Identify utilities available to the property (check box and indicate provider): |
| | Electric: |
| | ☐ Gas: |
| | Sanitary Sewer: |
| | Storm Sewer: |
| | Municipal Water: |
| 4. | Are there any easements at the property?:_ |
| | Yes D No |
| | If yes, where are the easements located?: |
| | |
| 5. | To the best of your knowledge, identify if the following were formerly (F) or are currently (C) present on the property. Select NA if not applicable to the property. |
| | F C NA On-site water supply wells |
| | F C NA Septic fields, drain fields, or dry wells F C NA Abandoned wells |
| | 110121301144 ((411) |
| | |
| | F C NA Underground sumps, lines, basins, or tanks F C NA Aboveground storage tanks (ASTs) |
| | F C NA Transformers or capacitors |
| | F C NA Other PCB containing equipment F C NA Mines or pits |
| | F C NA Mines or pits F C NA Hidden chemical materials or wastes |
| | F C NA Dumps or landfills |
| | F C NA Oil or gas wells or test holes F C NA Unusual fill areas, such as foundry sand, etc. |
| | F C NA Unusual fill areas, such as foundry sand, etc. F C NA Barrel or drum storage areas |
| | |
| 6. | What is the general use of property: |
| | ☐ Industrial ☐ Commercial ☐ Residential ☐ Other |
| 7. | What products/services are produced/provided at the property?: |
| 8. | What type of on-site processes are used at the property?: |
| 9. | What types of equipment are used at the property?: |
| 10. | What raw materials are used at the property?: |

| | er, NPDES, etc.) | No | • | . , | |
|--------------------|-------------------|------------------|------------|-----------|---|
| If yes, list the | аррlicable реп | nit(s): | | | |
| · | | | | | |
| roperty and Ac | ljoining Proper | ties - Current | and His | torical I | J <u>se</u> |
| 2. Are there any | - | / | d at the p | roperty? | |
| □ Yes | | No | | Unknow | 'n |
| If yes, please | list the monthly | volume genera | ated and o | explain d | isposal method: |
| | | | | | |
| 3. Is the property | or any adioini | o property cur | rently use | ed for an | industrial use? |
| ∴ is the property | • - | No | • | Unknow | |
| □ Property | | | | | |
| , | | | | | |
| If yes, explain | briefly: | | | | |
| commercial p | rinting facility, | dry cleaners, pl | hoto deve | cloping l | asoline station, vehicle repair fac aboratory, junkyard or landfill, o |
| _ | nt, storage, disp | | | - | • |
| Yes | | No | | Unknow | 'n |
| □ Property | ☐ Adjoining | 1. | , | • | 1 1 1 |
| If yes, explain | briefly: | 2 lots | dour | 1 /5 | Sewer transmet |
| | | - | | | · · · · · · · · · · · · · · · · · · · |
| ease complete t | he current land | use table below | ' : | | |
| | | Name | /Owner | | Land Use |
| Property | | | | | |
| North adjoinin | g properties | | | | Thoraxage Rules |

SME Project No.

Conor rental

Walker, Flake Shelden.

South adjoining properties

East adjoining properties
West adjoining properties

| ☐ Yes ☑ 1 | No [| Unknown | |
|---|---|--|--|
| ☐ Property ☐ Adjoining | | | |
| If yes, explain briefly: | | | |
| 6. Has the property or any adjoint repair facility, commercial print landfill, or as a waste treatment, | ting facility, dry c storage, disposal, | eaners, photo developi processing, or recycling | ng laboratory, junkyar |
| | No [| Unknown | |
| ☐ Property ☐ Adjoining | | | . – |
| | | 1- 1 1 | 10 . 324 UENO |
| If yes, explain briefly: Again from plant. | | Adjoin to o | in property |
| | use table below: | | |
| ease complete the historical land u | use table below: | As your to o | Dates |
| ease complete the historical land use of Property | use table below: | | |
| ease complete the historical land undervious use of Property evious use of properties to north | use table below: | | |
| revious use of Property revious use of properties to north revious use of properties to south | Owner | Use | |
| evious use of Property evious use of properties to north evious use of properties to south evious use of properties to east | use table below: | | |
| | Owner Cifel linity Waller Fibre Conditions here been previous paints, or other | Use Cft office Vacant rise-front usly, any damaged or chemicals (individual | discarded automotive containers greater that |

SME Project No.

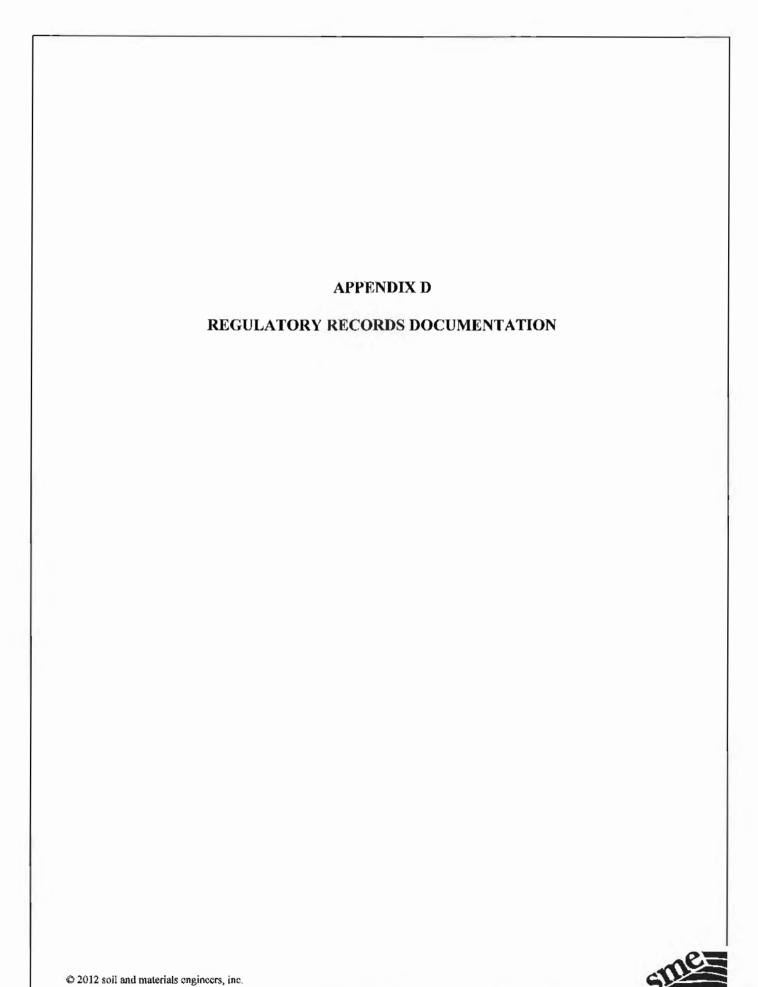
| | | | | SME Project No. |
|--|--|--|-------------------------------|--|
| 8. Are the sacks | nere currently of chemicals | y, or have there been stored on the propert | n previously y or at the f | , any industrial drums (typically 55-gallon) acility? |
| | Yes | □ No | | Unknown |
| If yes | , describe the | chemicals stored on | the property | (volume, contents and dates of storage):_ |
| or ind | lustrial batte | | | , unidentified waste materials, tires, automotivals been dumped above grade, buried, and/o |
| | Yes | No No | | Unknown |
| lf yes, | identify the | location and date(s):_ | | |
| 0. Are th | nere currently | y, or have there been derground) located o | n previously n the proper | , any registered or unregistered storage tank |
| (400.11 | -B. 0 4.1.0 01 4.1 | | | |
| | | □ No | | Unknown |
| | Yes | - | | Unknown s) of removal (if applicable): |
| | Yes | - | | |
| If yes, | Yes identify the | location, date(s) of us | se, and date(| |
| If yes, 1. Are the ground on the | Yes identify the ere currently l, areas of pa | location, date(s) of us | previously, | any vent pipes, fill pipes protruding from th |
| If yes, | Yes identify the ere currently l, areas of pa property? Yes | or have there been tched concrete or asp | previously, | any vent pipes, fill pipes protruding from these ways indicating an underground storage tan |
| If yes, | Yes identify the ere currently l, areas of pa property? Yes | or have there been tched concrete or asp | previously, | any vent pipes, fill pipes protruding from these ways indicating an underground storage tan |
| If yes, 1. Are the ground on the | Yes identify the ere currently l, areas of pa property? Yes identify the | or have there been tched concrete or asp | previously, halt, or acce | any vent pipes, fill pipes protruding from these ways indicating an underground storage tan |
| If yes, 1. Are the ground on the | Yes identify the ere currently l, areas of pa property? Yes identify the | location, date(s) of use the variation of the variation o | previously, halt, or acce | any vent pipes, fill pipes protruding from these ways indicating an underground storage tan |
| If yes, 1. Are the ground on the If yes, 2. Are the | Yes identify the ere currently l, areas of pa property? Yes identify the ere transform | location, date(s) of use the variation of the variation o | previously, halt, or acce | any vent pipes, fill pipes protruding from thess ways indicating an underground storage tan Unknown Unknown Unknown |
| If yes, 1. Are the ground on the If yes, 2. Are the | Yes identify the ere currently l, areas of pa property? Yes identify the ere transform | location, date(s) of use the variation of the variation o | previously, halt, or acce | any vent pipes, fill pipes protruding from the ss ways indicating an underground storage tandard Unknown Unknown |
| If yes, 1. Are the ground on the If yes, If yes, | Yes identify the ere currently l, areas of pa property? Yes identify the ere transform Yes are there any | location, date(s) of use the location, date(s) of use the location is the location in location in location is location in loca | greviously, halt, or acceded | any vent pipes, fill pipes protruding from thess ways indicating an underground storage tan Unknown Unknown Unknown |
| If yes, 1. Are the ground on the If yes, If yes, | Yes identify the ere currently l, areas of pa property? Yes identify the ere transform Yes are there any | location, date(s) of use the location, date(s) of use the location is the location in location in location is location in loca | greviously, halt, or acceded | any vent pipes, fill pipes protruding from these ways indicating an underground storage tandard Unknown Unknown Unknown Of PCBs?: |

| | | | | SME | |
|--------------------------------|--|--|--|---|--|
| Has fill onto th | l dirt been e property t | brought onto the properthat originated from a continuous | erty that is contaminate | of unknown origin? d site? | Has fill dirt been brou |
| | Yes | Ŋ No | | Unknown | |
| If yes, | identify the | e date and location of fi | ll placemen | t: | |
| than wa | ore currently ater, or foul property? | y, or have there been p l odors, associated wit | reviously, a | ny leaks, spills, or s ng, drains, walls, co | taining by substances of eilings, or exposed grou |
| | Yes | ☑ No | | Unknown | |
| If yes, | identify the | location and dates: | | | |
| | | | | | |
| treatme | re currently nt or dispos | sal located on the prope | erty? | | goons associated with wa |
| Are the treatme | re currently nt or dispos | y, or have there been properly sal located on the properly No | reviously, and erty? | | goons associated with wa |
| treatme | nt or dispos Yes | sal located on the prope | erty? | Unknown | |
| If yes, i | Yes dentify the | No location and dates: | erty? | Unknown into an existing stor | |
| If yes, i | Yes dentify the | No location and dates: water and sanitary wast | erty? | Unknown into an existing stor | |
| If yes, if Excluding property | Yes identify the ling storm way discharge Yes | No location and dates: vater and sanitary waste wastewater on or adjace | e discharge cent to the p | Unknown into an existing storoperty? Unknown | |
| If yes, if Excluding property | Yes identify the ling storm way discharge Yes | No No location and dates: vater and sanitary waste wastewater on or adjacents. | e discharge cent to the p | Unknown into an existing storoperty? Unknown | |
| If yes, if Excluding property | Yes identify the ling storm way discharge Yes | No No location and dates: vater and sanitary waste wastewater on or adjacents. | e discharge cent to the p | Unknown into an existing storoperty? Unknown | |
| If yes, of | Yes identify the ing storm way discharge Yes describe the oroperty is ed in the we | No location and dates: vater and sanitary waste wastewater on or adjace type of wastewater and saritary wastewater | e discharge cent to the plant of identify december of the plant of the | Unknown into an existing storoperty? Unknown ischarge location: | |
| If yes, of | Yes identify the ing storm way discharge Yes describe the oroperty is ed in the we | No location and dates: vater and sanitary waste wastewater on or adjacent wastewater and sanitary waste wastewater and served by a private well or system that excell | e discharge cent to the plant of identify december of the plant of the | Unknown into an existing storoperty? Unknown ischarge location: | rm/sanitary sewer, does |

| Pre | eviously | Identii | fied Envi | ronm | ental C | onditions | 3 | |
|-----|------------------------------|------------------------|--------------------------------------|-----------------|----------------------|-----------------------------|------------------|--|
| 29. | Have y product propert | ts, or er | n inform nvironme | ed of ntal v | the curiolation | rrent or particles with re- | past o | existence of hazardous substances, petroleum to the property or any facility located on the |
| | | Yes | | | No | | | Unknown |
| | If yes, | briefly e | explain: | | | | | |
| 30. | Do you present | have ar | ny knowle zardous si | edge o | of any en | nvironme etroleum | ntal si produ | ite assessment of the property that indicated the acts on, or contamination of, the property? |
| | | Yes | | J | No | | | Unknown |
| | If yes, | briefly e | xplain: | | | | _ | |
| 31. | If the p | | is in Mic | higan | , has a l | Baseline I | Enviro | onmental Assessment (BEA) been prepared for |
| | | Yes | | | No | | | Unknown |
| | If yes, | b r iefly e | xplain: | _ | | | | |
| 32. | the rele | ase of a | of any per ny hazard property? | ding, lous s | threater ubstance | ned, or pases or petro | st law | vsuits or administrative proceedings concerning a products involving the property or any facility |
| | | Yes | | | No | | | Unknown |
| | If yes, | briefly e | xplain: | _ | | | | |
| | Do you recurred property | nt violat | ny knowl ions of en | edge wiron | of envir | onmental laws with | liens respe | or government notification relating to past or ect to the property or any facility located on the |
| | | Yes | | | No | | | Unknown |
| | If yes, 1 | briefly e | xplain: | | | | | |

SME Project No. _____

| | SME Project No. |
|---|--|
| 34. Are you aware of any activity and la controls/land use restrictions) that are in a registry under federal, tribal, state, or lo | and use limitations (engineering controls or institutional place at the property and/or have been filed or recorded in ocal law? |
| ☐ Yes ☐ No | □ Unknown |
| If yes, identify limitation/restriction: | |
| | |
| | |
| | |
| Timothy P. Kelly Printed Name | |
| Printed Name | Signature |
| Commercial Bunk | Community President Title |
| Company | Title |
| 2-22-12 | |
| Date | - |



603 West Apple Street 603 West Apple Street Hastings, MI 49058

Inquiry Number: 3248813.2s

January 30, 2012

The EDR Radius Map™ Report with GeoCheck®

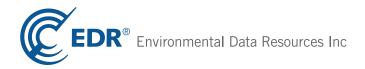


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| Physical Setting Source Records Searched | A-62 |

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

603 WEST APPLE STREET HASTINGS, MI 49058

COORDINATES

Latitude (North): 42.6498000 - 42° 38' 59.28" Longitude (West): 85.2954000 - 85° 17' 43.44"

Universal Tranverse Mercator: Zone 16 UTM X (Meters): 639731.2 UTM Y (Meters): 4723121.0

Elevation: 779 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 42085-F3 HASTINGS, MI

Most Recent Revision: 1982

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 2009, 2010 Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

| Federal NPL site list | |
|-----------------------|------------------------|
| NPL | National Priority List |

Proposed NPL..... Proposed National Priority List Sites NPL LIENS..... Federal Superfund Liens Federal Delisted NPL site list Delisted NPL..... National Priority List Deletions Federal CERCLIS list CERCLIS.... FEDERAL FACILITY..... Federal Facility Site Information listing Federal RCRA CORRACTS facilities list CORRACTS...... Corrective Action Report Federal RCRA non-CORRACTS TSD facilities list RCRA-TSDF...... RCRA - Treatment, Storage and Disposal Federal RCRA generators list RCRA-LQG...... RCRA - Large Quantity Generators Federal institutional controls / engineering controls registries US ENG CONTROLS..... Engineering Controls Sites List US INST CONTROL..... Sites with Institutional Controls Federal ERNS list ERNS..... Emergency Response Notification System State and tribal landfill and/or solid waste disposal site lists SWF/LF...... Solid Waste Facilities Database State and tribal leaking storage tank lists INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land State and tribal registered storage tank lists _____ Aboveground Tanks INDIAN UST...... Underground Storage Tanks on Indian Land FEMA UST..... Underground Storage Tank Listing State and tribal voluntary cleanup sites INDIAN VCP..... Voluntary Cleanup Priority Listing ADDITIONAL ENVIRONMENTAL RECORDS Local Lists of Landfill / Solid Waste Disposal Sites ODI...... Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

SWRCY..... Recycling Facilities

HIST LF..... Inactive Solid Waste Facilities

INDIAN ODI...... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs

Local Land Records

LIENS 2..... CERCLA Lien Information

LUCIS.....Land Use Control Information System

LIENS.....Lien List

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

SPILLS Pollution Emergency Alerting System

Other Ascertainable Records

DOT OPS..... Incident and Accident Data DOD...... Department of Defense Sites FUDS..... Formerly Used Defense Sites

CONSENT...... Superfund (CERCLA) Consent Decrees

ROD...... Records Of Decision UMTRA..... Uranium Mill Tailings Sites MINES..... Mines Master Index File

TRIS...... Toxic Chemical Release Inventory System

TSCA...... Toxic Substances Control Act

Act)/TSCA (Toxic Substances Control Act)

HIST FTTS....... FIFRA/TSCA Tracking System Administrative Case Listing

SSTS..... Section 7 Tracking Systems

ICIS______Integrated Compliance Information System

PADS...... PCB Activity Database System MLTS..... Material Licensing Tracking System RADINFO...... Radiation Information Database

FINDS..... Facility Index System/Facility Registry System RAATS......RCRA Administrative Action Tracking System

UIC......Underground Injection Wells Database

WDS...... Waste Data System DRYCLEANERS..... Drycleaning Establishments NPDES.....List of Active NPDES Permits AIRS..... Permit and Emissions Inventory Data

INDIAN RESERV..... Indian Reservations

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing

FINANCIAL ASSURANCE.... Financial Assurance Information Listing COAL ASH DOE..... Sleam-Electric Plan Operation Data

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER...... PCB Transformer Registration Database

COAL ASH...... Coal Ash Disposal Sites

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 02/25/2011 has revealed that there are 3 CERC-NFRAP sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|------------------------|-------------------------|---------------------------|--------|------|
| VIKING CORPORATION | 210 NORTH INDUSTRIAL PA | W 1/4 - 1/2 (0.390 mi.) | 26 | 43 |
| HASTING CITY LDFL | WEST STATE RD | ENE 1/4 - 1/2 (0.458 mi.) | H32 | 57 |
| NEWTON LUMBER CO | 128 S MICHIGAN | ESE 1/4 - 1/2 (0.473 mi.) | J36 | 64 |

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/15/2011 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|------------------------|----------------|---------------------------|--------|------|
| KMART CORPORATION | 802 W STATE ST | WSW 1/8 - 1/4 (0.144 mi.) | B6 | 13 |

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 06/15/2011 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|------------------------|----------------|---------------------------|--------|------|
| AUTOZONE INC | 401 W STATE ST | ESE 1/8 - 1/4 (0.172 mi.) | C10 | 19 |

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Quality's' Contaminated Sites List on Diskette With Address.

A review of the SHWS list, as provided by EDR, and dated 10/31/2011 has revealed that there are 4 SHWS sites within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|--|---------------------------|--------|------|
| HASTINGS CITY LANDFILL (OLD) Facility Status: Inactive - no actions ta | WEST STATE RD. ken to address contamination | ENE 1/4 - 1/2 (0.458 mi.) | H31 | 57 |
| STATE AND APPLE Facility Status: See Leaking Undergro | 227 E STATE ST und Storage Tank Site Database | E 1/4 - 1/2 (0.492 mi.) | J41 | 71 |
| HASTINGS BUILDING PRODUCTS Facility Status: Interim Response in pr | 429 S MICHIGAN AVE ogress | ESE 1/2 - 1 (0.545 mi.) | 43 | 74 |
| HASTINGS MANUFACTURING COMPA Facility Status: Interim Response in pr | | REEE 1/2 - 1 (0.619 mi.) | 46 | 79 |

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Quality's Leaking Underground Storage Tank (LUST) Database.

A review of the LUST list, as provided by EDR, and dated 11/14/2011 has revealed that there are 11 LUST sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|--|-------------------|---------------------------|--------|------|
| UNITED #6283 Facility Status: Open Facility Status: Open | 835 W STATE ST | WSW 1/8 - 1/4 (0.154 mi.) | B7 | 15 |
| MAXI MUFFLER Facility Status: Closed | 201 N BROADWAY ST | E 1/8 - 1/4 (0.236 mi.) | 16 | 30 |
| ADMIRAL PETROLEUM CO #7 Facility Status: Closed | 313 N BROADWAY ST | ENE 1/8 - 1/4 (0.241 mi.) | E20 | 36 |

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|------------------------|---------------------------|--------|------|
| TACO BELL/PHILLIPS 66 Facility Status: Open Facility Status: Open | 1021 W STATE ST | WSW 1/4 - 1/2 (0.260 mi.) | 22 | 40 |
| HASTINGS AMOCO #0089 Facility Status: Open | 301 W STATE RD | NE 1/4 - 1/2 (0.355 mi.) | 25 | 42 |
| CITY OF HASTINGS Facility Status: Open | 201 S JEFFERSON | ESE 1/4 - 1/2 (0.415 mi.) | G27 | 52 |
| SBC GARAGE Facility Status: Closed | 525 INDUSTRIAL PARK RD | WNW 1/4 - 1/2 (0.434 mi.) | 28 | 53 |
| UNITED #6284 Facility Status: Closed Facility Status: Closed | 134 E COURT ST | ESE 1/4 - 1/2 (0.439 mi.) | G29 | 54 |
| BLANKENSTEIN PONT-OLDS-GMC, IN Facility Status: Open | 328 N MICHIGAN AVE | E 1/4 - 1/2 (0.466 mi.) | 133 | 58 |
| HASTINGS SHELL Facility Status: Open | 135 E GREEN ST | ESE 1/4 - 1/2 (0.492 mi.) | 40 | 68 |
| STATE AND APPLE Facility Status: Open | 227 E STATE ST | E 1/4 - 1/2 (0.492 mi.) | J41 | 71 |

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Quality's Michigan UST database.

A review of the UST list, as provided by EDR, and dated 11/14/2011 has revealed that there are 4 UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|-------------------------|-----------------------|---------------------------|--------|------|
| UNITED #6283 | 835 W STATE ST | WSW 1/8 - 1/4 (0.154 mi.) | B7 | 15 |
| FAMILY FARE | 916 W STATE ST (M-37) | WSW 1/8 - 1/4 (0.185 mi.) | B11 | 21 |
| MAXI MUFFLER | 201 N BROADWAY ST | E 1/8 - 1/4 (0.236 mi.) | 16 | 30 |
| ADMIRAL PETROLEUM CO #7 | 313 N BROADWAY ST | ENE 1/8 - 1/4 (0.241 mi.) | E20 | 36 |

State and tribal institutional control / engineering control registries

AUL: A listing of sites with institutional and/or engineering controls in place.

A review of the AUL list, as provided by EDR, and dated 12/14/2011 has revealed that there is 1 AUL site within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|--------------------------------|-----------------|---------------------------|--------|------|
| ADMIRAL PETROLEUM (313 N. BROA | 313 N. BROADWAY | ENE 1/8 - 1/4 (0.241 mi.) | E19 | 35 |

State and tribal Brownfields sites

BROWNFIELDS: Brownfields and USTfield Site Database.

A review of the BROWNFIELDS list, as provided by EDR, and dated 11/04/2011 has revealed that there is 1 BROWNFIELDS site within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|------------------------|----------------|-------------------------|--------|------|
| STATE AND APPLE | 227 E STATE ST | E 1/4 - 1/2 (0.492 mi.) | J41 | 71 |

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 06/27/2011 has revealed that there are 5 US BROWNFIELDS sites within approximately 0.5 miles of the target property.

| Address | Direction / Distance | Map ID | Page |
|-------------------------|---|--|--|
| 441 WEST MILL STREET | ENE 0 - 1/8 (0.106 mi.) | 5 | 8 |
| 333 WEST STATE STREET | ESE 1/8 - 1/4 (0.222 mi.) | D15 | 25 |
| 328 NORTH MICHIGAN AVEN | E 1/4 - 1/2 (0.468 mi.) | l35 | 59 |
| 127 SOUTH MICHIGAN AVEN | E 1/4 - 1/2 (0.475 mi.) | J38 | 66 |
| 234 EAST STATE STREET | E 1/4 - 1/2 (0.499 mi.) | J42 | 73 |
| | 441 WEST MILL STREET 333 WEST STATE STREET 328 NORTH MICHIGAN AVEN 127 SOUTH MICHIGAN AVEN | 441 WEST MILL STREET ENE 0 - 1/8 (0.106 mi.) 333 WEST STATE STREET ESE 1/8 - 1/4 (0.222 mi.) 328 NORTH MICHIGAN AVEN E 1/4 - 1/2 (0.468 mi.) 127 SOUTH MICHIGAN AVEN E 1/4 - 1/2 (0.475 mi.) | 441 WEST MILL STREET ENE 0 - 1/8 (0.106 mi.) 5 333 WEST STATE STREET ESE 1/8 - 1/4 (0.222 mi.) D15 328 NORTH MICHIGAN AVEN E 1/4 - 1/2 (0.468 mi.) I35 127 SOUTH MICHIGAN AVEN E 1/4 - 1/2 (0.475 mi.) J38 |

Local Lists of Hazardous waste / Contaminated Sites

DEL SHWS: Sites that have been delisted or deleted from the List of Contaminated Sites. The available documentation for the site does support it's listing or the site no longer meets criteria specified in rules.

A review of the DEL SHWS list, as provided by EDR, and dated 11/07/2011 has revealed that there are 4 DEL SHWS sites within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|------------------------|-----------------------------|---------------------------|--------|------|
| 635 WEST STATE STREET | 635 WEST STATE STREET | S 0 - 1/8 (0.073 mi.) | А3 | 7 |
| 725 WEST STATE STREET | 725 WEST STATE STREET | SW 0 - 1/8 (0.099 mi.) | 4 | 8 |
| NEWTON LUMBER CO | 128 S MICHIGAN | ESE 1/4 - 1/2 (0.473 mi.) | J36 | 64 |
| GREEN & BOLTWOOD | GREEN & BOLTWOOD | ESE 1/2 - 1 (0.605 mi.) | 45 | 78 |
| | | | | |

Other Ascertainable Records

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 06/15/2011 has revealed that there are 5 RCRA-NonGen sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|------------------------|-------------------|---------------------------|--------|------|
| UNITED 6283 | 835 W STATE ST | WSW 1/8 - 1/4 (0.162 mi.) | B9 | 18 |
| CITY OF HASTINGS | 225 N CASS ST | WSW 1/8 - 1/4 (0.211 mi.) | 12 | 22 |
| GILLONS VACUUM SERVICE | 346 S M 37 HWY | ESE 1/8 - 1/4 (0.213 mi.) | C13 | 23 |
| AMOCO OIL CO | 126 N BROADWAY ST | ESE 1/8 - 1/4 (0.239 mi.) | D17 | 32 |
| ADMIRAL PETROLEUM CO | 313 N BROADWAY ST | ENE 1/8 - 1/4 (0.241 mi.) | E18 | 34 |

BEA: Baseline Environmental Assessment.

A review of the BEA list, as provided by EDR, and dated 11/28/2011 has revealed that there are 12 BEA sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|--------------------------------|-------------------------|---------------------------|--------|------|
| 629 WEST STATE STREET | 629 WEST STATE STREET | S 0 - 1/8 (0.073 mi.) | A1 | 7 |
| Not reported | 635 W. STATE STREET | S 0 - 1/8 (0.073 mi.) | A2 | 7 |
| 725 WEST STATE STREET | 725 WEST STATE STREET | SW 0 - 1/8 (0.099 mi.) | 4 | 8 |
| FORMER UNITED STATION #6283 | 835 WEST STATE STREET | WSW 1/8 - 1/4 (0.154 mi.) | B8 | 18 |
| 333 WEST STATE STREET | 333 WEST STATE STREET | ESE 1/8 - 1/4 (0.222 mi.) | D14 | 25 |
| FMR AMOCO SERVICE STATION #008 | 301 WEST STATE STREET | ESE 1/8 - 1/4 (0.244 mi.) | D21 | 39 |
| 241 WEST STATE STREET | 241 WEST STATE STREET | ESE 1/4 - 1/2 (0.290 mi.) | F23 | 41 |
| 221 WEST STATE STREET | 221 WEST STATE STREET | ESE 1/4 - 1/2 (0.305 mi.) | F24 | 42 |
| FORMER BLANKENSTEIN PONTIAC | 328 NORTH MICHIGAN AVEN | E 1/4 - 1/2 (0.466 mi.) | 134 | 58 |
| 202 EAST STATE STREET | 202 EAST STATE STREET | E 1/4 - 1/2 (0.474 mi.) | J37 | 65 |
| GROCERY STORE | 127 S MICHIGAN | E 1/4 - 1/2 (0.475 mi.) | J39 | 67 |
| STATE AND APPLE | 227 E STATE ST | E 1/4 - 1/2 (0.492 mi.) | J41 | 71 |

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the Manufactured Gas Plants list, as provided by EDR, has revealed that there are 2

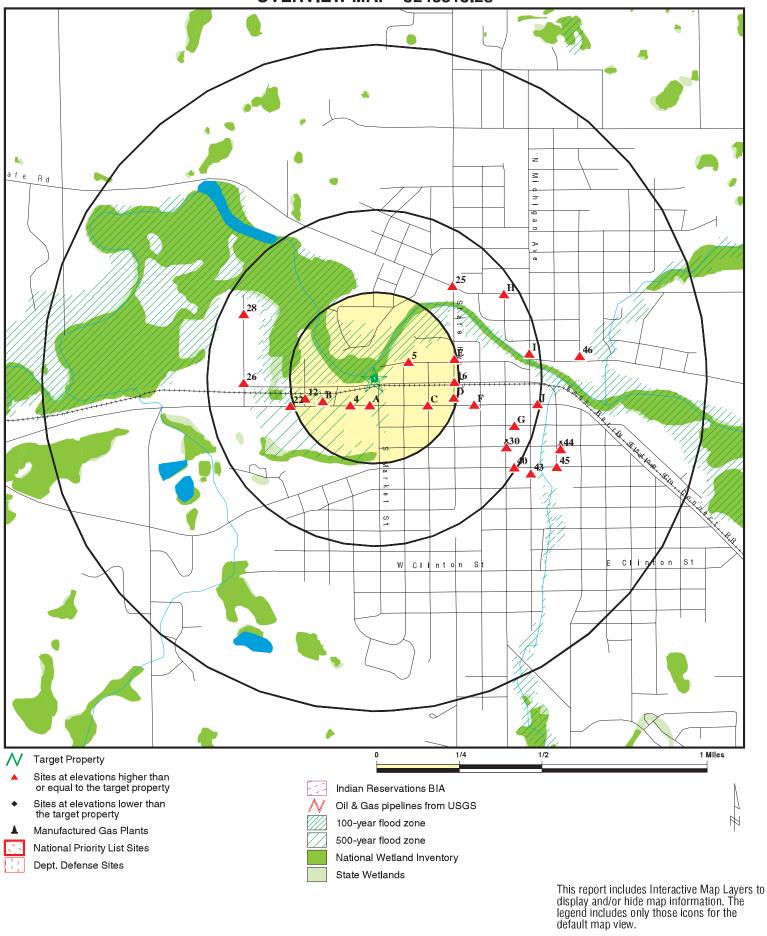
Manufactured Gas Plants sites within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|--------------------------------|----------------------|---------------------------|--------|------|
| THORNAPPLE GAS AND ELECTRIC CO | 904 E. CENTER STREET | ESE 1/4 - 1/2 (0.441 mi.) | 30 | 57 |
| CONSUMERS ENERGY MGP-HASTINGS | 904 E. CENTER | ESE 1/2 - 1 (0.594 mi.) | 44 | 78 |

Due to poor or inadequate address information, the following sites were not mapped. Count: 16 records.

| Site Name | Database(s) |
|------------------------------------|----------------|
| CONSUMERS ENERGY MGP-HASTINGS | SHWS |
| SUNDAGO DRIVE/ SUNDIAGO PARK 74 | SHWS |
| CHIEF NOONDAY - ARCHWOOD | SHWS |
| STATE EMPLOYEES CREDIT UNION | LUST, UST |
| VACANT LAND | LUST, UST |
| DAN DIMOND EQUIPMENT INC | AST |
| MI DEPT/STATE POLICE | RCRA-NonGen |
| MI DEPT/STATE POLICE | RCRA-NonGen |
| R & J INC | RCRA-NonGen |
| CITY ENVIRONMENTAL SERVICES LANDFI | RCRA-CESQG |
| MI DEPT/TRANSPORTATION | RCRA-CESQG |
| 325 HANOVER STREET | ERNS |
| 12-ACRE PARCEL | US BROWNFIELDS |
| 1000 BLK EAST STATE STREET | BEA |
| BARRY COUNTY ROAD COMMISSION GARAG | DEL SHWS |
| SUNDAGO DRIVE/ SUNDIAGO PARK 74 | DEL SHWS |

OVERVIEW MAP - 3248813.2s



January 30, 2012 3:27 pm

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Lauren Armeni

Soil & Materials Engineers

CLIENT: CONTACT:

DATE:

INQUIRY#: 3248813.2s

SITE NAME:

ADDRESS:

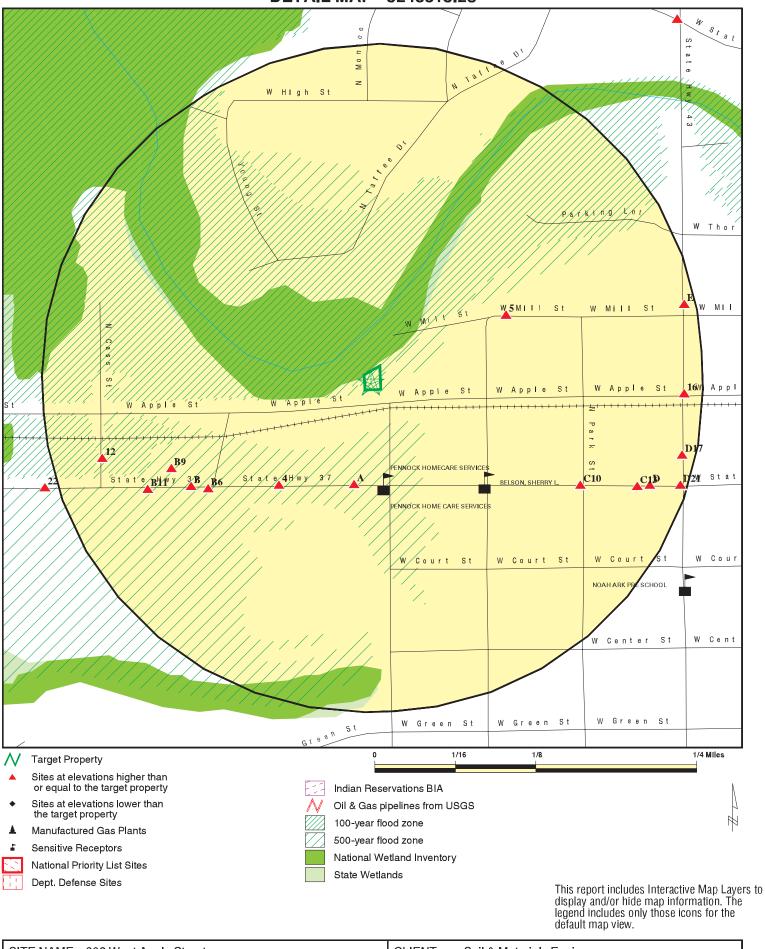
LAT/LONG:

603 West Apple Street

603 West Apple Street Hastings MI 49058

42.6498 / 85.2954

DETAIL MAP - 3248813.2s



SITE NAME: 603 West Apple Street CLIENT: Soil & Materials Engineers 603 West Apple Street Hastings MI 49058 CONTACT: ADDRESS: Lauren Armeni INQUIRY#: 3248813.2s LAT/LONG: 42.6498 / 85.2954 DATE: January 30, 2012 3:27 pm

MAP FINDINGS SUMMARY

| Database | Target Property | Search Distance (Miles) | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | >1 | Total Plotted | |
|--|--------------------|-------------------------------|--------------|--------------|----------------|----------------|----------------|------------------|--|
| STANDARD ENVIRONMENTAL RECORDS | | | | | | | | | |
| Federal NPL site list | | | | | | | | | |
| NPL Proposed NPL NPL LIENS | | 1.000 1.000 TP | 0 0 NR | 0 0 NR | 0 0 NR | 0 0 NR | NR NR NR | 0 0 0 | |
| Federal Delisted NPL site | e list | | | | | | | | |
| Delisted NPL | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 | |
| Federal CERCLIS list | | | | | | | | | |
| CERCLIS FEDERAL FACILITY | | 0.500 1.000 | 0 0 | 0 0 | 0 0 | NR 0 | NR NR | 0 0 | |
| Federal CERCLIS NFRAI | P site List | | | | | | | | |
| CERC-NFRAP | | 0.500 | 0 | 0 | 3 | NR | NR | 3 | |
| Federal RCRA CORRACTS facilities list | | | | | | | | | |
| CORRACTS | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 | |
| Federal RCRA non-CORRACTS TSD facilities list | | | | | | | | | |
| RCRA-TSDF | | 0.500 | 0 | 0 | 0 | NR | NR | 0 | |
| Federal RCRA generator | s list | | | | | | | | |
| RCRA-LQG RCRA-SQG RCRA-CESQG | | 0.250 0.250 0.250 | 0 0 0 | 0 1 1 | NR NR NR | NR NR NR | NR NR NR | 0 1 1 | |
| Federal institutional controls / engineering controls registries | | | | | | | | | |
| US ENG CONTROLS US INST CONTROL | | 0.500 0.500 | 0 0 | 0 0 | 0 0 | NR NR | NR NR | 0 0 | |
| Federal ERNS list | | | | | | | | | |
| ERNS | | TP | NR | NR | NR | NR | NR | 0 | |
| State- and tribal - equivalent CERCLIS | | | | | | | | | |
| SHWS | | 1.000 | 0 | 0 | 2 | 2 | NR | 4 | |
| State and tribal landfill a solid waste disposal site | | | | | | | | | |
| SWF/LF | | 0.500 | 0 | 0 | 0 | NR | NR | 0 | |
| State and tribal leaking storage tank lists | | | | | | | | | |
| LUST INDIAN LUST | | 0.500 0.500 | 0 0 | 3 0 | 8 0 | NR NR | NR NR | 11 0 | |
| State and tribal registered storage tank lists | | | | | | | | | |
| UST | | 0.250 | 0 | 4 | NR | NR | NR | 4 | |

MAP FINDINGS SUMMARY

| Database | Target Property | Search Distance (Miles) | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|--------------------|---|------------------------|------------------------|-------------------------|----------------------------|----------------------------------|-----------------------|
| AST INDIAN UST FEMA UST | | 0.250 0.250 0.250 | 0 0 0 | 0 0 0 | NR NR NR | NR NR NR | NR NR NR | 0 0 0 |
| State and tribal institutional control / engineering control registries | | | | | | | | |
| AUL | | 0.500 | 0 | 1 | 0 | NR | NR | 1 |
| State and tribal voluntar | y cleanup site | es | | | | | | |
| INDIAN VCP | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| State and tribal Brownfi | elds sites | | | | | | | |
| BROWNFIELDS | | 0.500 | 0 | 0 | 1 | NR | NR | 1 |
| ADDITIONAL ENVIRONMEN | NTAL RECORDS | <u> </u> | | | | | | |
| | | _ | | | | | | |
| Local Brownfield lists | | | | | _ | | | _ |
| US BROWNFIELDS | | 0.500 | 1 | 1 | 3 | NR | NR | 5 |
| Local Lists of Landfill / S Waste Disposal Sites | Solid | | | | | | | |
| ODI DEBRIS REGION 9 SWRCY HIST LF INDIAN ODI | | 0.500 0.500 0.500 0.500 0.500 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | NR NR NR NR NR | NR NR NR NR NR | 0 0 0 0 |
| Local Lists of Hazardous waste / Contaminated Sites | | | | | | | | |
| US CDL DEL SHWS CDL US HIST CDL | | TP 1.000 TP TP | NR 2 NR NR | NR 0 NR NR | NR 1 NR NR | NR 1 NR NR | NR NR NR NR | 0 4 0 0 |
| Local Land Records | | | | | | | | |
| LIENS 2 LUCIS LIENS | | TP 0.500 TP | NR 0 NR | NR 0 NR | NR 0 NR | NR NR NR | NR NR NR | 0 0 0 |
| Records of Emergency Release Reports | | | | | | | | |
| HMIRS SPILLS | | TP TP | NR NR | NR NR | NR NR | NR NR | NR NR | 0 0 |
| Other Ascertainable Records | | | | | | | | |
| RCRA-NonGen DOT OPS DOD FUDS CONSENT ROD | | 0.250 TP 1.000 1.000 1.000 1.000 | 0 NR 0 0 0 | 5 NR 0 0 0 | NR NR 0 0 0 | NR NR 0 0 0 | NR NR NR NR NR NR | 5 0 0 0 0 |

MAP FINDINGS SUMMARY

| Database | Target Property | Search Distance (Miles) | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|-----------------------------|--------------------|-------------------------------|----------|-----------|-----------|----------|----------|------------------|
| UMTRA | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| MINES | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| TRIS | | TP | NR | NR | NR | NR | NR | 0 |
| TSCA | | TP | NR | NR | NR | NR | NR | 0 |
| FTTS | | TP | NR | NR | NR | NR | NR | 0 |
| HIST FTTS | | TP | NR | NR | NR | NR | NR | 0 |
| SSTS ICIS | | TP TP | NR NR | NR NR | NR NR | NR NR | NR NR | 0 0 |
| PADS | | TP | NR | NR | NR NR | NR | NR | 0 |
| MLTS | | TP | NR | NR | NR | NR | NR | 0 |
| RADINFO | | TP | NR | NR | NR | NR | NR | 0 |
| FINDS | | TP | NR | NR | NR | NR | NR | Ő |
| RAATS | | TP | NR | NR | NR | NR | NR | Ö |
| UIC | | TP | NR | NR | NR | NR | NR | Ō |
| WDS | | TP | NR | NR | NR | NR | NR | 0 |
| DRYCLEANERS | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| NPDES | | TP | NR | NR | NR | NR | NR | 0 |
| AIRS | | TP | NR | NR | NR | NR | NR | 0 |
| BEA | | 0.500 | 3 | 3 | 6 | NR | NR | 12 |
| INDIAN RESERV | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| SCRD DRYCLEANERS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| FINANCIAL ASSURANCE | | TP | NR | NR | NR | NR | NR | 0 |
| COAL ASH DOE | | TP | NR | NR | NR | NR | NR | 0 |
| COAL ASH EPA | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| PCB TRANSFORMER COAL ASH | | TP 0.500 | NR 0 | NR 0 | NR 0 | NR NR | NR NR | 0 0 |
| COAL ASH | | 0.500 | U | U | U | INIX | INIX | U |
| EDR PROPRIETARY RECOR | DS | | | | | | | |
| EDR Proprietary Records | ; | | | | | | | |
| Manufactured Gas Plants | | 1.000 | 0 | 0 | 1 | 1 | NR | 2 |

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

Α1 **629 WEST STATE STREET** S110748253 South

629 WEST STATE STREET N/A

HASTINGS, MI 49058 < 1/8

0.073 mi.

386 ft. Site 1 of 3 in cluster A

BEA: Relative:

Secondary Address: Not reported Higher

BEA Number: 2886

Actual: District: **Grand Rapids**

783 ft. Date Received: 2/11/2011 12:59:00 AM Submitter Name: Commercial Bank

Petition Determination: No Request

Petition Disclosure: 0

Category: Not reported Determination 20107A: No Request Reviewer: johnsonn

Division Assigned: **Environmental Response Division**

S105767446 **A2** BEA

South **635 W. STATE STREET** < 1/8 HASTINGS, MI

0.073 mi.

388 ft. Site 2 of 3 in cluster A

BEA: Relative:

Secondary Address: Not reported Higher

BEA Number: 47

Actual: District: Kalamazoo 783 ft. Date Received: 11/13/1996

Main Street Savings Bank, FSB Submitter Name:

Petition Determination: No Request

Petition Disclosure: 0

Category: No Hazardous Substance(s)

Determination 20107A: No Request Reviewer: temppm

Division Assigned: **Environmental Response Division**

635 WEST STATE STREET DEL SHWS S106880324 А3 South **635 WEST STATE STREET** N/A

< 1/8 HASTINGS, MI 49058

0.073 mi.

388 ft. Site 3 of 3 in cluster A

DELETED HWS: Relative:

Facility ID: 08000102 Higher

Status: Deleted - available documentation does not support listing

Actual: 783 ft.

N/A

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

4 725 WEST STATE STREET DEL SHWS \$105541559 SW 725 WEST STATE STREET BEA N/A

< 1/8 HASTINGS, MI 49058

0.099 mi. 524 ft.

Relative: DELETED HWS:

Higher Facility ID: 08000103

Status: Deleted - available documentation does not support listing

Actual: 782 ft.

BEA:

Secondary Address: Not reported
BEA Number: 1041
District: Grand Rapids
Date Received: 4/29/2002 12:59:00 AM

Submitter Name: L3 Properties, LLC Petition Determination: No Request

Petition Disclosure: 0

Category: No Hazardous Substance(s)

Determination 20107A: No Request Reviewer: hopkinsh

Division Assigned: Environmental Response Division

Secondary Address: Not reported BEA Number: 1522

District: Grand Rapids

Date Received: 10/25/2004 12:59:00 AM Submitter Name: Leakee Holdings, LLC

Petition Determination: No Request

Petition Disclosure: 0

Category: No Hazardous Substance(s)

Determination 20107A: No Request Reviewer: wierzbid

Division Assigned: Environmental Response Division

5 441 WEST MILL STREET US BROWNFIELDS 1014476570
ENE 441 WEST MILL STREET N/A

< 1/8 0.106 mi. 558 ft.

Relative: US BROWNFIELDS:

HASTINGS, MI 49058

Higher Recipient name: Hastings, City of Grant type: Assessment

Actual: Property name: 441 West Mill Street

781 ft. Property #: Not reported

Parcel size: .8

Latitude: 42.650560 Longitude: 85.293340 HCM label: Not reported Map scale: Not reported Point of reference: Not reported Not reported Datum: 123804 ACRES property ID: Start date: Not reported Not reported Completed date: Acres cleaned up: Not reported Cleanup funding: Not reported Cleanup funding source: Not reported

Distance Elevation

tion Site Database(s) EPA ID Number

441 WEST MILL STREET (Continued)

1014476570

EDR ID Number

Assessment funding: Not reported Assessment funding source: Not reported Redevelopment funding: 20000 Redev. funding source: Local Funding Redev. funding entity name: City of Hastings 05-NOV-10 Redevelopment start date: Assessment funding entity: Not reported Cleanup funding entity: Not reported

Grant type:

Accomplishment type: Not reported Ownership entity: Not reported Current owner: Not reported Did owner change: Not reported

Cleanup required: No Video available: No Photo available: Yes Institutional controls required: N

IC Category proprietary controls: Not reported IC cat. info. devices: Not reported IC cat. gov. controls: Not reported IC cat. enforcement permit tools: Not reported IC in place date: Not reported Not reported IC in place:

IC in place: No

State/tribal program date: Not reported State/tribal program ID: Not reported State/tribal NFA date: Not reported Air contaminated: Not reported Air cleaned: Not reported Asbestos found: Not reported Not reported Asbestos cleaned: Controled substance found: Not reported Controled substance cleaned: Not reported Drinking water affected: Not reported Drinking water cleaned: Not reported Not reported Groundwater affected: Not reported Groundwater cleaned: Lead contaminant found: Not reported Lead cleaned up: Not reported

No media affected: Y

Unknown media affected: Not reported Not reported Other cleaned up: Not reported Other metals found: Other metals cleaned: Not reported Not reported Other contaminants found: Other contams found description: Not reported PAHs found: Not reported PAHs cleaned up: Not reported PCBs found: Not reported PCBs cleaned up: Not reported Petro products found: Not reported Petro products cleaned: Not reported Sediments found: Not reported Sediments cleaned: Not reported Soil affected: Not reported Soil cleaned up: Not reported Surface water cleaned: Not reported Unknown found: Not reported

Direction Distance Elevation

on Site Database(s) EPA ID Number

441 WEST MILL STREET (Continued)

1014476570

EDR ID Number

VOCs found: Not reported VOCs cleaned: Not reported Cleanup other description: Not reported

Num. of cleanup and re-dev. jobs:0

Past use greenspace acreage: Not reported

Past use residential acreage: .8

Past use commercial acreage: Not reported Not reported Not reported

Future use greenspace acreage: .8

Future use residential acreage: Not reported Future use commercial acreage: Not reported Future use industrial acreage: Not reported

Greenspace acreage and type: .8

Superfund Fed. landowner flag: Not reported

Recipient name: Hastings, City of Grant type: Assessment
Property name: 441 West Mill Street

Property #: Not reported

Parcel size: .8

42.650560 Latitude: Longitude: 85.293340 HCM label: Not reported Map scale: Not reported Point of reference: Not reported Not reported Datum: ACRES property ID: 123804 Start date: Not reported Completed date: Not reported Acres cleaned up: Not reported Not reported Cleanup funding: Cleanup funding source: Not reported Assessment funding: 7500

Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement

Redevelopment funding:
Redev. funding source:
Redev. funding entity name:
Redevelopment start date:
Assessment funding entity:
Cleanup funding entity:

Not reported
Not reported
EPA
Not reported

Grant type: H

Accomplishment type: Phase II Environmental Assessment

Ownership entity: Not reported Current owner: Not reported Did owner change: Not reported

Cleanup required: No
Video available: No
Photo available: Yes
Institutional controls required: N

IC Category proprietary controls: Not reported IC cat. info. devices: Not reported IC cat. gov. controls: Not reported IC cat. enforcement permit tools: Not reported IC in place date: Not reported

IC in place: No

State/tribal program date: Not reported State/tribal program ID: Not reported

Direction Distance Elevation

tion Site Database(s) EPA ID Number

441 WEST MILL STREET (Continued)

1014476570

EDR ID Number

State/tribal NFA date: Not reported Air contaminated: Not reported Not reported Air cleaned: Not reported Asbestos found: Asbestos cleaned: Not reported Controled substance found: Not reported Controled substance cleaned: Not reported Drinking water affected: Not reported Drinking water cleaned: Not reported Groundwater affected: Not reported Not reported Groundwater cleaned: Not reported Lead contaminant found: Lead cleaned up: Not reported No media affected: Not reported Not reported

Unknown media affected: Other cleaned up: Not reported Other metals found: Other metals cleaned: Not reported Other contaminants found: Not reported Other contams found description: Not reported Not reported PAHs found: PAHs cleaned up: Not reported Not reported PCBs found: PCBs cleaned up: Not reported Petro products found: Not reported Petro products cleaned: Not reported Sediments found: Not reported Sediments cleaned: Not reported Soil affected: Not reported Soil cleaned up: Not reported Surface water cleaned: Not reported Unknown found: Not reported VOCs found: Not reported VOCs cleaned: Not reported Cleanup other description: Not reported Num. of cleanup and re-dev. jobs: Not reported Past use greenspace acreage: Not reported

Past use industrial acreage: Not reported Future use greenspace acreage: .8

Past use residential acreage:

Past use commercial acreage:

Future use residential acreage: Not reported Future use commercial acreage: Not reported Future use industrial acreage: Not reported Greenspace acreage and type: Not reported Superfund Fed. landowner flag: Not reported

Recipient name: Hastings, City of Grant type: Assessment
Property name: 441 West Mill Street

.8

Not reported

Property #: Not reported

Parcel size: .8
Latitude: 42.650560
Longitude: 85.293340
HCM label: Not reported
Map scale: Not reported
Point of reference: Not reported

Direction Distance Elevation

evation Site Database(s) EPA ID Number

441 WEST MILL STREET (Continued)

1014476570

EDR ID Number

Datum: Not reported ACRES property ID: 123804 Start date: Not reported Not reported Completed date: Acres cleaned up: Not reported Cleanup funding: Not reported Cleanup funding source: Not reported Assessment funding: 2000

Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement

Redevelopment funding:
Redev. funding source:
Redev. funding entity name:
Redevelopment start date:
Assessment funding entity:
Cleanup funding entity:

Not reported
Not reported
EPA
Not reported

Grant type: H

Accomplishment type: Phase I Environmental Assessment

Ownership entity: Not reported Current owner: Not reported Did owner change: Not reported

Cleanup required: No Video available: No Photo available: Yes Institutional controls required: N

IC Category proprietary controls: Not reported IC cat. info. devices: Not reported IC cat. gov. controls: Not reported IC cat. enforcement permit tools: Not reported IC in place date: Not reported

IC in place: No

State/tribal program date: Not reported State/tribal program ID: Not reported State/tribal NFA date: Not reported Air contaminated: Not reported Not reported Air cleaned: Not reported Asbestos found: Not reported Asbestos cleaned: Controled substance found: Not reported Controled substance cleaned: Not reported Drinking water affected: Not reported Not reported Drinking water cleaned: Not reported Groundwater affected: Groundwater cleaned: Not reported Lead contaminant found: Not reported Lead cleaned up: Not reported

No media affected: Y

Unknown media affected: Not reported Other cleaned up: Not reported Other metals found: Not reported Other metals cleaned: Not reported Other contaminants found: Not reported Other contams found description: Not reported PAHs found: Not reported PAHs cleaned up: Not reported PCBs found: Not reported PCBs cleaned up: Not reported Petro products found: Not reported

Direction Distance

Elevation Site **EPA ID Number** Database(s)

441 WEST MILL STREET (Continued)

1014476570

EDR ID Number

Petro products cleaned: Not reported Sediments found: Not reported Sediments cleaned: Not reported Soil affected: Not reported Soil cleaned up: Not reported Surface water cleaned: Not reported Unknown found: Not reported VOCs found: Not reported VOCs cleaned: Not reported Cleanup other description: Not reported Num. of cleanup and re-dev. jobs: Not reported Past use greenspace acreage: Not reported Past use residential acreage: .8

Past use commercial acreage: Not reported Past use industrial acreage: Not reported

Future use greenspace acreage:

Future use residential acreage: Not reported Future use commercial acreage: Not reported Future use industrial acreage: Not reported Greenspace acreage and type: Not reported Superfund Fed. landowner flag: Not reported

Property Description: Based on review of historical information, the Property was developed

> with a residential dwelling in 1900. The Property use remained residential until April 2010, when a fire destroyed the residential dwelling. The remnants of the dwelling and thegarage were subsequently demolished. Because of the age of the former structures, it is possible the building materials contained asbestos and/or were coated with lead-based paint. Mercury containing devices

e.g., thermostats, may have also been ussed in the dwelling.

B6 KMART CORPORATION WSW 802 W STATE ST 1/8-1/4 HASTINGS, MI 49058

0.144 mi.

Site 1 of 5 in cluster B 758 ft.

Relative:

RCRA-SQG:

Higher

Date form received by agency: 02/19/2009

Actual: 782 ft.

KMART CORPORATION Facility name: Facility address: 802 W STATE ST

HASTINGS, MI 49058 EPA ID: MIK972348825

Mailing address: 3333 BEVERLY RD

HOFFMAN ESTATES, IL 60179

Contact: MICHAEL OLSEN Contact address: 802 W STATE ST HASTINGS, MI 49058

Contact country: US

Contact telephone: (847) 286-7222 Contact email: Not reported

EPA Region: 05 Land type: Private

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

hazardous waste at any time

RCRA-SQG

1012181399

MIK972348825

Map ID MAP FINDINGS
Direction

Distance Elevation Site

Site Database(s) EPA ID Number

KMART CORPORATION (Continued)

1012181399

EDR ID Number

Owner/Operator Summary:

Owner/operator name: KMART CORPORATION

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 09/30/1990
Owner/Op end date: Not reported

Owner/operator name: KMART CORPORATION

Owner/operator address:

Owner/operator country:

Owner/operator telephone:

Legal status:

Owner/Operator Type:

Not reported
Not reported
Private
Operator
Operator

Owner/Operator Type: Operator
Owner/Op start date: 09/30/1990
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: Nο Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 02/19/2009

Facility name: KMART CORPORATION Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

KMART CORPORATION (Continued)

1012181399

Evaluation Action Summary:

Evaluation date: 01/28/2010

COMPLIANCE EVALUATION INSPECTION ON-SITE Evaluation:

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

B7 UNITED #6283 LUST U002300657 **WSW** 835 W STATE ST UST N/A

1/8-1/4 0.154 mi. 813 ft.

Site 2 of 5 in cluster B

HASTINGS, MI 45501

LUST: Relative:

Higher Facility ID: 00011839

STATE OF MICHIGAN Source: Actual: Owner Name: Emro Marketing Co 782 ft. Owner Address: Po Box 1500

> Springfield, OH 45501-1500 Owner City, St, Zip:

Owner Contact: Not reported (937) 864-3000 Owner Phone:

Country: USA District: Grand Rapids District Office Site Name: Emro Marketing #6283 Latitude: 42.6487600000 Longitude: -85.2982190000

Date of Collection: 01/11/2001

Method of Collection: Address Matching-House Number

100 Accuracy: Accuracy Value Unit: **FEET** Horizontal Data: NAD83 Point Line Area: **POINT**

Desc Category: Plant Entrance (Freight)

Leak Number: C-0703-94 Release Date: 07/08/1994 Substance Released: Gasoline Release Status: Open Release Closed Date: Not reported

Leak Number: C-2400-90 Release Date: 11/16/1990 Substance Released: Not reported Release Status: Open Release Closed Date: Not reported

UST:

Facility ID: 00011839 Facility Type: CLOSED Latitude: 42.6487600000 Longitude: -85.2982190000 Owner Name: Emro Marketing Co Owner Address: Po Box 1500

Owner City, St, Zip: Springfield, OH 45501-1500

Owner Country: USA Owner Contact: Not reported (937) 864-3000 Owner Phone: R G SCHUMANN Contact: Contact Phone: (708) 335-0600

Direction Distance

Elevation Site Database(s) EPA ID Number

UNITED #6283 (Continued)

U002300657

EDR ID Number

Date of Collection: 01/11/2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Tank ID:

Tank Status: Removed from Ground

Capacity: 6000
Install Date: 05/02/1978
Product: Gasoline
Remove Date: 03/13/1996
Tank Release Detection: Inventory Control

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Galvanized Steel

Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID: B

Tank Status: Removed from Ground

 Capacity:
 3000

 Install Date:
 05/02/1978

 Product:
 Kerosene

 Remove Date:
 03/13/1996

Tank Release Detection: Inventory Control, Manual Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Galvanized Steel

Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID:

Tank Status: Removed from Ground

 Capacity:
 6000

 Install Date:
 05/02/1978

 Product:
 Gasoline

 Remove Date:
 03/13/1996

Tank Release Detection: Inventory Control, Manual Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Galvanized Steel

Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID:

Tank Status: Removed from Ground

 Capacity:
 6000

 Install Date:
 05/02/1978

 Product:
 Gasoline

 Remove Date:
 03/13/1996

Direction Distance

Elevation Site Database(s) EPA ID Number

UNITED #6283 (Continued) U002300657

Tank Release Detection: Inventory Control, Manual Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Galvanized Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID:

Tank Status: Removed from Ground

 Capacity:
 6000

 Install Date:
 05/02/1978

 Product:
 Gasoline

 Remove Date:
 03/13/1996

Tank Release Detection: Inventory Control, Manual Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Galvanized Steel

Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID:

Tank Status: Removed from Ground

 Capacity:
 6000

 Install Date:
 05/02/1978

 Product:
 Gasoline

 Remove Date:
 03/16/1996

Tank Release Detection: Inventory Control, Manual Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Galvanized Steel

Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID: G

Tank Status: Removed from Ground

 Capacity:
 6000

 Install Date:
 05/02/1978

 Product:
 Gasoline,8

 Remove Date:
 03/16/1996

Tank Release Detection: Inventory Control, Manual Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Galvanized Steel
Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s) **EPA ID Number**

B8 FORMER UNITED STATION #6283 S106096565 **WSW** N/A

835 WEST STATE STREET HASTINGS, MI 49508

1/8-1/4 0.154 mi.

813 ft. Site 3 of 5 in cluster B BEA:

Relative:

Higher

Secondary Address: Not reported

BEA Number: 1307

Actual: District: **Grand Rapids**

782 ft. Date Received: 11/3/2003 12:59:00 AM Submitter Name: L3 Properties, LLC

Petition Determination: No Request Petition Disclosure:

Category: No Hazardous Substance(s)

Determination 20107A: No Request Reviewer: christec

Division Assigned: Storage Tank Division

В9 **UNITED 6283** RCRA-NonGen 1000325861 wsw 835 W STATE ST **FINDS** MID985578251

1/8-1/4 HASTINGS, MI 49058

0.162 mi.

Actual:

856 ft. Site 4 of 5 in cluster B

RCRA-NonGen: Relative:

Date form received by agency: 04/23/1990 Higher

Facility name: **UNITED 6283** Facility address: 835 W STATE ST

782 ft. HASTINGS, MI 49058 EPA ID: MID985578251

PO BOX 1500 Mailing address:

SPRINGFIELD, OH 45501

Contact: JULIUS BLANCO Contact address: 835 W STATE ST HASTINGS, MI 49058

Contact country: US

(937) 864-3000 Contact telephone: Contact email: Not reported

EPA Region: 05

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

NO ACTIVE O/OP AS NOT GENERATING WASTE Owner/operator name:

Owner/operator address: Not reported Not reported Owner/operator country: Not reported Owner/operator telephone: Not reported

Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 01/03/1998 Owner/Op end date: Not reported

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported

Direction

Elevation Site Database(s) EPA ID Number

UNITED 6283 (Continued) 1000325861

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/03/1998
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: Nο On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Hazardous Waste Summary:

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

Registry ID: 110003639509

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

C10 AUTOZONE INC RCRA-CESQG 1007990111
ESE 401 W STATE ST MIK692858715

ESE 401 W STATE ST 1/8-1/4 HASTINGS, MI 49058

0.172 mi.

906 ft. Site 1 of 2 in cluster C

RCRA-CESQG:

Relative: RCRA-CESQG:
Higher Date form received by agency: 10/26/2004

Facility name: AUTOZONE INC
Actual: Facility address: 401 W STATE ST

790 ft.

Direction Distance Elevation

Site Database(s) EPA ID Number

AUTOZONE INC (Continued)

1007990111

EDR ID Number

HASTINGS, MI 49058

EPA ID: MIK692858715

Mailing address: 123 S FRONT STREET

MEMPHIS, TN 38103

Contact: GREGORY TAYLOR
Contact address: 401 W STATE ST

HASTINGS, MI 49058

Contact country: US

Contact telephone: (269) 948-8594 Contact email: Not reported

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely

hazardous waste

Owner/Operator Summary:

Owner/operator name: AUTOZONE INC Owner/operator address: Not reported

Not reported

Owner/operator country:
Owner/operator telephone:
Legal status:
Owner/Operator Type:
Owner/Op start date:
Owner/Op end date:
Not reported
Operator
Operator
Not reported
Not reported

Owner/operator name: AUTOZONE INC
Owner/operator address: Not reported

Not reported

Owner/operator country:

Owner/operator telephone:

Legal status:

Owner/Operator Type:

Owner

Owner/Op start date:

Owner/Op end date:

Not reported

Not reported

Not reported

Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

AUTOZONE INC (Continued) 1007990111

Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Universal Waste Summary:

Waste type: **Batteries** Accumulated waste on-site: Yes Generated waste on-site: Yes

Hazardous Waste Summary:

D001 Waste code:

IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF Waste name:

> LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

B11 FAMILY FARE UST U004126815 wsw 916 W STATE ST (M-37) N/A

1/8-1/4 HASTINGS, MI 49518 0.185 mi.

978 ft. Site 5 of 5 in cluster B

UST: Relative:

Facility ID: 00042139 Higher ACTIVE Facility Type: Actual: Latitude: Not reported

783 ft. Longitude: Not reported

Spartan Store Fuels LLC Owner Name:

850 76th Street SW PO Box 8700 Owner Address:

Grand Rapids, MI 49518 Owner City, St, Zip:

Owner Country: USA

Owner Contact: Not reported Owner Phone: (616) 878-8141 Contact: **Brett Parker** (616) 218-7217 Contact Phone: Date of Collection: Not reported Not reported Accuracy: Accuracy Value Unit: Not reported Horizontal Datum: Not reported Not reported Source: Point Line Area: Not reported Desc Category: Not reported Method of Collection: Not reported

Tank ID:

Currently In Use Tank Status:

35000 Capacity: Install Date: 11/14/2008

Direction Distance

Elevation Site Database(s) **EPA ID Number**

FAMILY FARE (Continued) U004126815

Product: Gasoline, Diesel, Gasoline

Remove Date: Not reported

Tank Release Detection: Manual Tank Gauging, Inventory Control, Automatic Tank Gauging,

Interstitial Monitoring Double Walled Tank

Pipe Realease Detection: Automatic Line Leak Detectors, Interstitial Monitoring Double Walled

Piping, Line Tightness Testing

Fiberglass Reinforced Plastic, Double Walled Piping Material:

Piping Type: Pressure

Constr Material: Fiberglass Reinforced Plastic, Double Walled

Impressed Device: No

12 **CITY OF HASTINGS RCRA-NonGen** 1007098374 MIK498573633

wsw 225 N CASS ST 1/8-1/4 HASTINGS, MI 49058 0.211 mi.

1112 ft.

RCRA-NonGen: Relative:

Higher Date form received by agency: 08/16/2002

CITY OF HASTINGS Facility name: Actual: Facility address: 225 N CASS ST 782 ft.

HASTINGS, MI 49058

EPA ID: MIK498573633 DARRELL CARR Contact: Contact address: 225 N CASS ST

HASTINGS, MI 49058

Contact country: US

Contact telephone: (269) 945-3083 Not reported Contact email:

EPA Region: 05

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator country:

Owner/operator name: CITY OF HASTINGS

Owner/operator address: Not reported

Not reported Not reported

Owner/operator telephone: Not reported Legal status: Municipal Owner/Operator Type: Operator Owner/Op start date: 08/16/2002 Owner/Op end date: Not reported

Owner/operator name: CITY OF HASTINGS

Owner/operator address: Not reported Not reported Not reported Owner/operator country:

Owner/operator telephone: Not reported Legal status: Municipal Owner/Operator Type: Owner 08/16/2002 Owner/Op start date: Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CITY OF HASTINGS (Continued) 1007098374

Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: Nο User oil refiner: No No

Used oil fuel marketer to burner: Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Hazardous Waste Summary:

Waste code: D001

IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF Waste name:

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

C13 **GILLONS VACUUM SERVICE RCRA-NonGen** 1007096932 MIK274327642

ESE 346 S M 37 HWY 1/8-1/4 HASTINGS, MI 49058

0.213 mi

1123 ft. Site 2 of 2 in cluster C

RCRA-NonGen: Relative:

Date form received by agency: 04/18/2006 Higher

GILLONS VACUUM SERVICE Facility name:

Actual: Facility address: 346 S M 37 HWY 793 ft. HASTINGS, MI 49058

EPA ID: MIK274327642 Contact:

RYAN GILLONS Contact address: 346 S M 37 HWY HASTINGS, MI 49058

Contact country: US

Contact telephone: (269) 838-2168 Contact email: Not reported EPA Region: 05

Land type: Private Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: **RYAN GILLONS** Owner/operator address: Not reported Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 03/12/2003

Direction Distance Elevation

vation Site Database(s) EPA ID Number

GILLONS VACUUM SERVICE (Continued)

1007096932

EDR ID Number

Owner/Op end date: Not reported

Owner/operator name: RYAN GILLONS
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported

Owner/operator telephone: Not reported Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 03/12/2003
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: Nο Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 03/27/2003

Facility name: GILLONS VACUUM SERVICE Classification: Not a generator, verified

Hazardous Waste Summary:

Waste code: D00

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Facility Has Received Notices of Violations:

Regulation violated: Not reported

Area of violation: State Statute or Regulation

Date violation determined: 03/17/2004
Date achieved compliance: 03/19/2004
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 03/17/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

GILLONS VACUUM SERVICE (Continued)

1007096932

Proposed penalty amount: 0 0 Final penalty amount: 0 Paid penalty amount:

Evaluation Action Summary:

03/12/2004 Evaluation date:

COMPLIANCE EVALUATION INSPECTION ON-SITE Evaluation:

Area of violation: State Statute or Regulation

Date achieved compliance: 03/19/2004 Evaluation lead agency: State

D14 S110748227 333 WEST STATE STREET BEA **ESE** 333 WEST STATE STREET

N/A

N/A

1/8-1/4 HASTINGS, MI 49058

0.222 mi.

1170 ft. Site 1 of 4 in cluster D

BEA: Relative:

Not reported Secondary Address: Higher BEA Number: 2894

Actual: District: **Grand Rapids**

793 ft. Date Received: 2/18/2011 12:59:00 AM

Submitter Name: Greenstone Farm Credit Services, ACA

No Request Petition Determination: Petition Disclosure: 0

Category: Not reported Determination 20107A: No Request Reviewer: monetd

Division Assigned: **Environmental Response Division**

D15 333 WEST STATE STREET **US BROWNFIELDS** 1014476566

Hastings, City of

Assessment

ESE 333 WEST STATE STREET 1/8-1/4 HASTINGS, MI 49058

0.222 mi.

1170 ft. Site 2 of 4 in cluster D

Relative:

US BROWNFIELDS:

Recipient name: Higher Grant type:

Actual: Property name: 333 West State Street 793 ft. Not reported

Property #:

Parcel size: Latitude: 42.648800

85.291800 Longitude: HCM label: Not reported Map scale: Not reported Point of reference: Not reported Datum: Not reported ACRES property ID: 123806 Start date: Not reported Completed date: Not reported Acres cleaned up: Not reported Cleanup funding: Not reported

Cleanup funding source: Not reported Assessment funding: 13000

Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement

Redevelopment funding: Not reported

Distance Elevation

Site Database(s) EPA ID Number

333 WEST STATE STREET (Continued)

1014476566

EDR ID Number

Redev. funding source:

Redev. funding entity name:

Redevelopment start date:

Assessment funding entity:

Cleanup funding entity:

Not reported

EPA

Not reported

Not reported

Grant type:

Accomplishment type: Phase II Environmental Assessment

Ownership entity: Not reported Current owner: Not reported Did owner change: Not reported

Cleanup required: No
Video available: No
Photo available: Yes
Institutional controls required: N

IC Category proprietary controls: Not reported IC cat. info. devices: Not reported IC cat. gov. controls: Not reported IC cat. enforcement permit tools: Not reported IC in place date: Not reported

IC in place: No

State/tribal program date: Not reported State/tribal program ID: Not reported Not reported State/tribal NFA date: Air contaminated: Not reported Air cleaned: Not reported Not reported Asbestos found: Asbestos cleaned: Not reported Controled substance found: Not reported Controled substance cleaned: Not reported Drinking water affected: Not reported Drinking water cleaned: Not reported Groundwater affected: Not reported Groundwater cleaned: Not reported Lead contaminant found: Not reported Not reported Lead cleaned up: Not reported No media affected: Unknown media affected: Not reported Other cleaned up: Not reported

Other metals found: Y

Other metals cleaned: Not reported Other contaminants found: Not reported Other contams found description: Not reported

PAHs found: Y

PAHs cleaned up:

PCBs found:

PCBs cleaned up:

Petro products found:

Petro products cleaned:

Sediments found:

Sediments cleaned:

Sediments cleaned:

Soil affected:

Not reported

Soil cleaned up:

Surface water cleaned:

Unknown found:

VOCs found:

VOCs cleaned:

Cleanup other description:

Not reported

Not reported

Not reported

Not reported

Not reported

Not reported

Direction Distance Elevation

tion Site Database(s) EPA ID Number

333 WEST STATE STREET (Continued)

1014476566

EDR ID Number

Num. of cleanup and re-dev. jobs: Not reported Past use greenspace acreage: Not reported Past use residential acreage: Not reported

Past use commercial acreage: .4

Past use industrial acreage: Not reported Future use greenspace acreage: Not reported Future use residential acreage: Not reported

Future use commercial acreage: .4

Future use industrial acreage: Not reported Greenspace acreage and type: Not reported Superfund Fed. landowner flag: Not reported

Recipient name: Hastings, City of Grant type: Assessment

Property name: 333 West State Street

Property #: Not reported

Parcel size: .4

Latitude: 42.648800 Longitude: 85.291800 HCM label: Not reported Map scale: Not reported Point of reference: Not reported Not reported Datum: ACRES property ID: 123806 Start date: Not reported Completed date: Not reported Acres cleaned up: Not reported Cleanup funding: Not reported Cleanup funding source: Not reported Assessment funding: Not reported Not reported Assessment funding source: Redevelopment funding: 415000

Redev. funding source: Private/Other Fundin
Redev. funding entity name: Greenstone Capital

Redevelopment start date: 20-DEC-10
Assessment funding entity: Not reported
Cleanup funding entity: Not reported

Grant type: H

Accomplishment type: Not reported Ownership entity: Not reported Current owner: Not reported Did owner change: Not reported

Cleanup required: No Video available: No Photo available: Yes Institutional controls required: N

IC Category proprietary controls: Not reported IC cat. info. devices: Not reported IC cat. gov. controls: Not reported IC cat. enforcement permit tools: Not reported IC in place date: Not reported

IC in place: No

State/tribal program date:

State/tribal program ID:

State/tribal NFA date:

Air contaminated:

Not reported

MAP FINDINGS Map ID

Direction Distance Elevation

Site Database(s) **EPA ID Number**

333 WEST STATE STREET (Continued)

1014476566

EDR ID Number

Asbestos found: Not reported Not reported Asbestos cleaned: Not reported Controled substance found: Not reported Controled substance cleaned: Drinking water affected: Not reported Drinking water cleaned: Not reported Groundwater affected: Not reported Groundwater cleaned: Not reported Lead contaminant found: Not reported Lead cleaned up: Not reported Not reported No media affected: Not reported Unknown media affected: Other cleaned up: Not reported

Other metals found:

Other metals cleaned: Not reported Other contaminants found: Not reported Other contams found description: Not reported

PAHs found:

PAHs cleaned up: Not reported PCBs found: Not reported PCBs cleaned up: Not reported Petro products found: Not reported Not reported Petro products cleaned: Sediments found: Not reported Sediments cleaned: Not reported Soil affected:

Soil cleaned up: Not reported Surface water cleaned: Not reported Unknown found: Not reported VOCs found: Not reported Not reported VOCs cleaned: Cleanup other description: Not reported

Num. of cleanup and re-dev. jobs:8

Past use greenspace acreage: Not reported Past use residential acreage: Not reported

Past use commercial acreage:

Past use industrial acreage: Not reported Future use greenspace acreage: Not reported Future use residential acreage: Not reported

Future use commercial acreage:

Not reported Future use industrial acreage: Greenspace acreage and type: Not reported Superfund Fed. landowner flag: Not reported

Hastings, City of Recipient name: Grant type: Assessment

Property name: 333 West State Street

Property #: Not reported Parcel size:

42.648800 Latitude: Longitude: 85.291800 HCM label: Not reported Map scale: Not reported Point of reference: Not reported Datum: Not reported ACRES property ID: 123806 Start date: Not reported

MAP FINDINGS Map ID

Direction Distance Elevation

EDR ID Number Site Database(s) **EPA ID Number**

333 WEST STATE STREET (Continued)

1014476566

Completed date: Not reported Acres cleaned up: Not reported Cleanup funding: Not reported Cleanup funding source: Not reported Assessment funding: 2500

Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement

Redevelopment funding: Not reported Redev. funding source: Not reported Redev. funding entity name: Not reported Redevelopment start date: Not reported Assessment funding entity: EPA Cleanup funding entity: Not reported

Grant type:

Accomplishment type: Phase I Environmental Assessment

Ownership entity: Not reported Current owner: Not reported Not reported Did owner change:

Cleanup required: No Video available: No Photo available: Yes Institutional controls required: Ν

IC Category proprietary controls: Not reported IC cat. info. devices: Not reported IC cat. gov. controls: Not reported IC cat. enforcement permit tools: Not reported IC in place date: Not reported

IC in place: No

State/tribal program date: Not reported State/tribal program ID: Not reported Not reported State/tribal NFA date: Air contaminated: Not reported Air cleaned: Not reported Not reported Asbestos found: Asbestos cleaned: Not reported Not reported Controled substance found: Not reported Controled substance cleaned: Drinking water affected: Not reported Drinking water cleaned: Not reported Groundwater affected: Not reported Groundwater cleaned: Not reported Lead contaminant found: Not reported Not reported Lead cleaned up: No media affected: Not reported Unknown media affected: Not reported

Other metals found:

Other cleaned up:

Other metals cleaned: Not reported Other contaminants found: Not reported Other contams found description: Not reported

Not reported

PAHs found:

PAHs cleaned up: Not reported PCBs found: Not reported PCBs cleaned up: Not reported Petro products found: Not reported Petro products cleaned: Not reported Not reported Sediments found: Sediments cleaned: Not reported

Direction Distance Elevation

stance EDR ID Number evation Site Database(s) EPA ID Number

333 WEST STATE STREET (Continued)

1014476566

Soil affected: Y

Soil cleaned up: Not reported Not reported Surface water cleaned: Not reported Unknown found: VOCs found: Not reported VOCs cleaned: Not reported Cleanup other description: Not reported Num. of cleanup and re-dev. jobs: Not reported Past use greenspace acreage: Not reported Past use residential acreage: Not reported

Past use commercial acreage: .4

Past use industrial acreage: Not reported Future use greenspace acreage: Not reported Future use residential acreage: Not reported

Future use commercial acreage: .4

Future use industrial acreage: Not reported Greenspace acreage and type: Not reported Superfund Fed. landowner flag: Not reported

Property Description: In 1884, the earliest date in which information was available for the

site, the Property was developed with one residence and associated outbuildings. By 1900, an additional residence was located on the Property. By 1909, a third residence was addeed to the Property. Three residences and associated outbuildings occupied the Property until approximately 1972. Sometime during 1972 or 1973, the residences were razed. In 1973, the current building was built on the Property and was operated as an restaurant. The restaurant changed names several times until approximately 1996, when the building was remodeled and changed to an insurance agency office. The insurance agency operated in the office until at least 2005 however, currently the building is vacant. The east adjoining site is an open leaking underground storage tank site groundwater at this site is impacted with VOCs, lead, and PAHs. Based on its proximity to the Property, the potential exists for migration of

impacted grouundwater onto the Property.

16 MAXI MUFFLER East 201 N BROADWAY ST 1/8-1/4 HASTINGS, MI 49058

0.236 mi. 1244 ft.

Relative: Ligher

LUST:

Facility ID: 00015494

Source: STATE OF MICHIGAN

Actual: 788 ft.

Owner Name: Gail Johnston
Owner Address: 5910 2 Mile Rd

Owner City, St, Zip: Bay City, MI 48706-3173

Owner Contact: Not reported
Owner Phone: (517) 686-9606

Country: USA

District: Grand Rapids District Office
Site Name: Hastings Shell (maxi Muffler)

Latitude: 42.6496780000 Longitude: -85.2903890000 Date of Collection: 01/11/2001

Method of Collection: Address Matching-House Number

Accuracy: 100 Accuracy Value Unit: FEET LUST

UST

U000249799

N/A

Direction Distance

Elevation Site Database(s) EPA ID Number

MAXI MUFFLER (Continued)

U000249799

EDR ID Number

Horizontal Data: NAD83 Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number:C-0452-92Release Date:03/25/1992Substance Released:GasolineRelease Status:ClosedRelease Closed Date:03/24/1993

UST:

Facility ID: 00015494
Facility Type: CLOSED
Latitude: 42.6496780000
Longitude: -85.2903890000
Owner Name: Gail Johnston
Owner Address: 5910 2 Mile Rd

Owner City,St,Zip: Bay City, MI 48706-3173

Owner Country: USA
Owner Contact: Not reported
Owner Phone: (517) 686-9606
Contact: GAIL JOHNSTON
Contact Phone: (517) 686-9606
Date of Collection: 01/11/2001

Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Tank ID: 1

Tank Status: Removed from Ground

10000 Capacity: Install Date: 04/16/1971 Product: Gasoline Remove Date: 03/25/1992 Tank Release Detection: Not reported Pipe Realease Detection: Not reported Galvanized Steel Piping Material: Suction: Valve at Tank Piping Type: Constr Material: Fiberglass Reinforced plastic

Impressed Device: No

Tank ID: 2

Tank Status: Removed from Ground

10000 Capacity: 04/16/1971 Install Date: Product: Gasoline Remove Date: 03/25/1992 Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Galvanized Steel Piping Type: Suction: Valve at Tank Constr Material: Fiberglass Reinforced plastic

Impressed Device: No

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MAXI MUFFLER (Continued) U000249799

Tank ID:

Removed from Ground Tank Status:

10000 Capacity: Install Date: 04/16/1971 Product: Gasoline 03/25/1992 Remove Date: Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Galvanized Steel Piping Type: Suction: Valve at Tank Constr Material: Fiberglass Reinforced plastic

Impressed Device:

D17 **AMOCO OIL CO** RCRA-NonGen 1000529544 **ESE** 126 N BROADWAY ST **FINDS** MID985620061

HASTINGS, MI 49058 1/8-1/4

0.239 mi.

Site 3 of 4 in cluster D 1264 ft.

RCRA-NonGen: Relative:

Date form received by agency: 12/31/2001 Higher

Facility name: AMOCO OIL CO

Actual: Facility address: 126 N BROADWAY ST 792 ft. HASTINGS, MI 49058

EPA ID: MID985620061

Mailing address: P O BOX 352917 **TOLEDO, OH 43635**

Contact: KEVIN ENDRISS Contact address: 126 N BROADWAY ST

HASTINGS, MI 49058

Contact country: US

Contact telephone: (419) 842-1553 Contact email: Not reported EPA Region: 05

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

AMOCO OIL CO Owner/operator name: Owner/operator address: Not reported Not reported

Owner/operator country: Not reported Not reported Owner/operator telephone: Legal status: Private Owner/Operator Type: Operator

Owner/Op start date: 01/01/1970 Owner/Op end date: Not reported

BP PRODUCTS NORTH AMERICA, INC Owner/operator name:

Owner/operator address: Not reported Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 10/11/2002 Owner/Op end date: Not reported

Direction Distance Elevation

stance EDR ID Number evation Site Database(s) EPA ID Number

AMOCO OIL CO (Continued) 1000529544

Owner/operator name:
Owner/operator address:
Not reported
Not reported
Owner/operator country:
Owner/operator telephone:
Legal status:
Owner/Operator Type:
AMOCO OIL CO
Not reported
Not reported
Private
Owner

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: BP PRODUCTS NORTH AMERICA, INC

Owner/operator address: Not reported

Not reported

Owner/operator country:

Owner/operator telephone:
Legal status:
Owner/Operator Type:
Owner
Owner/Op start date:
Owner/Op end date:

Not reported
Private
Owner
Owner
Owner
Owner
Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: Nο User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 08/05/1991
Facility name: AMOCO OIL CO
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

AMOCO OIL CO (Continued) 1000529544

Registry ID: 110003661546

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

E18 **ADMIRAL PETROLEUM CO RCRA-NonGen** 1007098977 313 N BROADWAY ST **ENE** MIK593695943

1/8-1/4 HASTINGS, MI 49058 0.241 mi.

Site 1 of 3 in cluster E 1273 ft.

RCRA-NonGen: Relative:

Higher Date form received by agency: 12/31/2001

ADMIRAL PETROLEUM CO Facility name: Actual: Facility address: 313 N BROADWAY ST 783 ft. HASTINGS, MI 49058

> EPA ID: MIK593695943

PO BOX 198 Mailing address:

COOPERSVILLE, MI 49404

Contact: SHAWN MACFARLANE Contact address: 313 N BROADWAY ST HASTINGS, MI 49058

Contact country: US

(616) 897-8044 Contact telephone: Contact email: Not reported

EPA Region: 05

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

ADMIRAL PETROLEUM CORP Owner/operator name:

Owner/operator address: Not reported Not reported Owner/operator country: Not reported

Owner/operator telephone: Not reported Legal status: Private Operator Owner/Operator Type: Owner/Op start date: 09/18/2001 Owner/Op end date: Not reported

Owner/operator name: ADMIRAL PETROLEUM CORP

Owner/operator address: Not reported Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 09/18/2001 Owner/Op end date: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ADMIRAL PETROLEUM CO (Continued)

1007098977

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: Nο Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 12/30/2001

ADMIRAL PETROLEUM CO Facility name:

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 09/18/2001

ADMIRAL PETROLEUM CO Facility name: Classification: Small Quantity Generator

Date form received by agency: 01/01/1980

Facility name: ADMIRAL PETROLEUM CO Classification: Not a generator, verified

Hazardous Waste Summary:

Waste code: D001

IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF Waste name:

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

E19 **ADMIRAL PETROLEUM (313 N. BROADWAY, HASTINGS)**

313 N. BROADWAY **ENE** HASTINGS, MI 49058 1/8-1/4

0.241 mi.

Site 2 of 3 in cluster E 1273 ft.

AUL: Relative:

Status: Recorded Higher Site Name: Not reported

Actual: Property: 313 N. Broadway, Hastings

783 ft. Land Use Restriction Type: RC

> Program Type: Part 213 Program Support Assigned User: Nicholas Swartz Program Support Assigned Date: 5/20/2009 14:49:35.39

Legal Description Of Property: Migrated AUL

S108957866

N/A

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ADMIRAL PETROLEUM (313 N. BROADWAY, HASTINGS) (Continued)

S108957866

Based On The Deq Ref #: 11121306045 MDEQ Reference Number: RC-RRD-213-06-045

Property Or Description Restricted Area: Migrated Lead Division: STD

File Name Of Hyperlinked Legal Doc: U:\\Kermit\\11121306045.pdf

Mapped Polygon S Area In Acres: 0.4004 Mapped Polygon S Area In Square Miles: 0.0006

Date Data Entry Started: 5/20/2009 00:00:00 Date Data Entry Finished: 5/20/2009 00:00:00

Individual Or Staff Assoc With The Mapping: Nicholas Swartz

Program Used To Map Restricted Features: ArcInfo 9.3 and IcoMap 4.2

Map Comments: Restriction is NOT mapped in Kermit as of 12262007. LUR is mapped in

KERMIT as of 20090520 - Nick Swartz

Comment: Request received on 7/5/2006 Sent by district after recording

Date Legal Paperwork Stamped/Filed/Register Of Deeds: 12/16/2005 00:00:00

Commercial I Land Use Restriction: Commercial li Land Use Restriction: 0 Commercial lii Land Use Restriction: 0 Commercial Iv Land Use Restriction: 0 Industrial Land Use Restriction: 0 Residential Land Use Restriction: 0 Recreational Land Use Restriction: 0 Multiple Land-Use Restrictions: Site Specific Restrictions: Groundwater Consumption Restrictions: 0 **Groundwater Contact Restrictions:** Special Well Construction Requirements: 0 Special Building Restrictions:

Excavation And Soil Movement Restrictions: 0 Soil Movement Requirements: 1 There Is A Restriction On All Construction: 0 Monitoring Well Protected, No Tampering Or Removal: 0 There Is An Exposure Barrier In Place: 0 There Is A Health And Safety Plan: 0 There Is A Permanent Marker On The Site: 0

ADMIRAL PETROLEUM CO #7 LUST U003327680 313 N BROADWAY ST **UST** N/A

1/8-1/4 0.241 mi.

E20

ENE

1273 ft. Site 3 of 3 in cluster E

HASTINGS, MI 49058

Relative: Higher

Actual:

783 ft.

LUST:

Facility ID: 00002500

STATE OF MICHIGAN Source: Owner Name: Admiral Petroleum Co Owner Address: 13 E Randall St

Coopersville, MI 49404-1422 Owner City, St, Zip:

Owner Contact: Not reported Owner Phone: (616) 837-6218

Country: USA

Grand Rapids District Office District:

Admiral Petroleum Site Name: Latitude: 42.6508300000 Longitude: -85.2901110000 Date of Collection: 07/23/2001

GPS Code Meas. Standard Positioning Service SA Off Method of Collection:

Accuracy: 10

Direction Distance

Elevation Site Database(s) EPA ID Number

ADMIRAL PETROLEUM CO #7 (Continued)

U003327680

EDR ID Number

Accuracy Value Unit: METERS
Horizontal Data: NAD83
Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number:C-0838-92Release Date:05/22/1992Substance Released:GasolineRelease Status:ClosedRelease Closed Date:01/03/2006

UST:

Facility ID: 00002500
Facility Type: ACTIVE
Latitude: 42.6508300000
Longitude: -85.2901110000
Owner Name: Admiral Petroleum Co
Owner Address: 13 E Randall St

Owner City, St, Zip: Coopersville, MI 49404-1422

Owner Country: USA

Owner Contact: Not reported
Owner Phone: (616) 837-6218
Contact: DENNIS E LEMMEN
Contact Phone: (616) 837-6218
Date of Collection: 07/23/2001

Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID:

Tank Status: Removed from Ground

Capacity: 4000
Install Date: 05/03/1979
Product: Gasoline
Remove Date: 06/09/1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID: 2

Tank Status: Removed from Ground

Capacity: 4000
Install Date: 05/03/1979
Product: Gasoline
Remove Date: 06/09/1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Direction Distance

Elevation Site Database(s) EPA ID Number

ADMIRAL PETROLEUM CO #7 (Continued)

U003327680

EDR ID Number

Impressed Device: No

Tank ID:

Tank Status: Removed from Ground

Capacity: 4000
Install Date: 05/02/1969
Product: Gasoline
Remove Date: 06/09/1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported

Piping Material: Bare Steel, Galvanized Steel

Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID:

Tank Status: Removed from Ground

Capacity: 4000
Install Date: 05/02/1969
Product: Gasoline
Remove Date: 06/08/1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID: 5

Tank Status: Removed from Ground

Capacity: 4000
Install Date: 05/02/1969
Product: Gasoline
Remove Date: 06/09/1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID: 6

Tank Status: Removed from Ground

Capacity: 4000
Install Date: 05/02/1969
Product: Gasoline
Remove Date: 06/09/1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Direction Distance

Elevation Site Database(s) EPA ID Number

ADMIRAL PETROLEUM CO #7 (Continued)

U003327680

EDR ID Number

Tank ID: 7

Tank Status:Currently In UseCapacity:10000Install Date:06/15/1992Product:GasolineRemove Date:Not reported

Tank Release Detection: Automatic Tank Gauging, Inventory Control, Manual Tank Gauging, Vapor

Monitoring

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Double Walled, Fiberglass reinforced plastic

Piping Type: Pressure

Constr Material: Fiberglass Reinforced plastic

Impressed Device: No

Tank ID:

Tank Status: Currently In Use

Capacity: 10000
Install Date: 06/15/1992
Product: Gasoline
Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging, Inventory Control, Manual Tank Gauging, Vapor

Monitoring

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Double Walled, Fiberglass reinforced plastic

Piping Type: Pressure

Constr Material: Fiberglass Reinforced plastic

Impressed Device: No

Tank ID:

Tank Status: Currently In Use

Capacity: 10000
Install Date: 06/15/1992
Product: Gasoline
Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging, Inventory Control, Manual Tank Gauging, Vapor

Monitoring

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Double Walled, Fiberglass reinforced plastic

Piping Type: Pressure

Constr Material: Fiberglass Reinforced plastic

Impressed Device: No

D21 FMR AMOCO SERVICE STATION #0089

301 WEST STATE STREET KENT (County), MI 49058

1/8-1/4 0.244 mi.

ESE

1288 ft. Site 4 of 4 in cluster D

Relative: BEA:

Higher Secondary Address: Not reported

BEA Number: 1404

Actual: District: Grand Rapids

795 ft. Date Received: 4/22/2004 12:59:00 AM
Submitter Name: Joe Bush Real Estate LLC

Petition Determination: Affirmed Petition Disclosure: 1

S106425613

N/A

BEA

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FMR AMOCO SERVICE STATION #0089 (Continued)

Same Hazardous Substance(s)

Determination 20107A: No Request Reviewer: austina

Division Assigned: Storage Tank Division

22 **TACO BELL/PHILLIPS 66** LUST U003758629 wsw 1021 W STATE ST UST N/A

1/4-1/2 0.260 mi.

1371 ft.

LUST: Relative:

Higher Facility ID: 00040090

Category:

HASTINGS, MI 48084

STATE OF MICHIGAN Source: Actual: Owner Name: B & R Oil Co Inc 783 ft.

Owner Address: 363 W Big Beaver Rd Ste 300

Owner City, St, Zip: Troy, MI 48084 Owner Contact: Not reported Owner Phone: (219) 272-6955

Country: USA

District: **Grand Rapids District Office** Site Name: Taco Bell/phillips 66 42.6494570000 Latitude: Longitude: -85.3008930000 Date of Collection: 10/21/2003

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Accuracy: Accuracy Value Unit: FEET NAD83 Horizontal Data: Point Line Area: **POINT**

Desc Category: Plant Entrance (Freight)

Leak Number: C-0045-09 03/26/2009 Release Date: Substance Released: Gasoline Release Status: Open Release Closed Date: Not reported

Leak Number: C-0161-03 Release Date: 04/21/2003 Substance Released: Gasoline, Gasoline

Release Status: Release Closed Date: Not reported

Facility ID: 00040090 Facility Type: **ACTIVE** 42.6494570000 Latitude: Longitude: -85.3008930000 Owner Name: B & R Oil Co Inc

Owner Address: 363 W Big Beaver Rd Ste 300

Troy, MI 48084 Owner City, St, Zip:

Owner Country: USA Owner Contact: Not reported Owner Phone: (219) 272-6955 Contact: Mike Didacon Contact Phone: (219) 272-9644 Date of Collection: 10/21/2003

S106425613

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

TACO BELL/PHILLIPS 66 (Continued)

U003758629

Accuracy: 100 Accuracy Value Unit: **FEET** Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: **POINT**

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID:

Tank Status: **Currently In Use**

15000 Capacity: Install Date: 07/13/1999 Product: Gasoline Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging, Inter Monitoring Double Walled Tank Pipe Realease Detection: Automatic Line Leak Detectors, Interstitial Monitoring Double Walled

Piping

Piping Material: Double Walled, Secondary Containment

Piping Type: Pressure

Composite(Steel w/Fiberglass), Double Walled Constr Material:

Impressed Device: No

Tank ID:

Tank Status: **Currently In Use**

15000 Capacity: Install Date: 07/13/1999 Product: Gasoline Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging, Inter Monitoring Double Walled Tank Pipe Realease Detection: Automatic Line Leak Detectors, Interstitial Monitoring Double Walled

Piping

Piping Material: Double Walled, Secondary Containment

Piping Type: Pressure

Composite(Steel w/Fiberglass), Double Walled Constr Material:

Impressed Device: No

S108084261 F23 **241 WEST STATE STREET** BEA **ESE 241 WEST STATE STREET** N/A

1/4-1/2 HASTINGS, MI

0.290 mi.

1531 ft. Site 1 of 2 in cluster F

BEA: Relative:

Secondary Address: Higher

BEA Number: 1919 Actual: **Grand Rapids** District:

798 ft. 9/5/2006 12:59:00 AM Date Received:

Submitter Name: Chemical Bank Petition Determination: No Request

Petition Disclosure:

Category: No Hazardous Substance(s)

Determination 20107A: No Request Reviewer: monetd

Division Assigned: **Environmental Response Division**

Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

F24 221 WEST STATE STREET BEA S108084259
ESE 221 WEST STATE STREET N/A

1/4-1/2 HASTINGS, MI

0.305 mi.

1608 ft. Site 2 of 2 in cluster F

Relative: BEA:

Higher

Secondary Address: Not reported

BEA Number: 1920 District: Grand

Actual: 798 ft.

District: Grand Rapids
Date Received: 9/5/2006 12:59:00 AM
Submitter Name: Chemical Bank

Petition Determination: No Request

Petition Disclosure: 0

Category: No Hazardous Substance(s)

Determination 20107A: No Request Reviewer: monetd

Division Assigned: Environmental Response Division

25 HASTINGS AMOCO #0089 LUST S102353169

25 HASTINGS AMOCO #00
NE 301 W STATE RD
1/4-1/2 HASTINGS, MI 49058

0.355 mi. 1874 ft.

Relative: LUST:

Higher Facility ID: 50001681

Source: STATE OF MICHIGAN

Actual: Owner Name: Nrt Owner 821 ft. Owner Address: Unknown

Owner City,St,Zip: Unknown, MI 99999
Owner Contact: Not reported
Owner Phone: Not reported

Country: USA

District: Grand Rapids District Office
Site Name: Hastings Amoco #0089
Latitude: 42.6488033700
Longitude: -85.2907790700
Date of Collection: 01/11/2001
Method of Collection: Interpolation-Map

Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Not reported

Leak Number:C-1220-85Release Date:02/06/1989Substance Released:Not reportedRelease Status:OpenRelease Closed Date:Not reported

EDR ID Number

N/A

Direction Distance

Actual:

Elevation Site Database(s) EPA ID Number

26 VIKING CORPORATION CERC-NFRAP 1000256875
West 210 NORTH INDUSTRIAL PARK ROAD RCRA-SQG MID006407142

1/4-1/2 HASTINGS, MI 49058 0.390 mi. 2058 ft. FINDS MANIFEST **EDR ID Number**

Relative: CERC-NFRAP:

Higher Site ID: 0502381

Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL

785 ft. Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Alias Name(s):

Alias Name: VIKING CORP

Alias Address: 210 N INDUSTRIAL PARK RD HASTINGS, MI 49058

Program Priority:

Description: Great Lakes

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY
Date Started: Not reported
Date Completed: 07/01/1980
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 06/18/1986
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT

Date Started: Not reported
Date Completed: 06/18/1986

Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

RCRA-SQG:

Date form received by agency: 12/01/2009
Facility name: VIKING CORP

Facility address: 210 N INDUSTRIAL PARK DR

HASTINGS, MI 49058

EPA ID: MID006407142

Contact: THOMAS LENARTOWICZ

Contact address: Not reported Not reported

Contact country: Not reported
Contact telephone: (269) 945-8206
Contact email: Not reported
EPA Region: 05

Land type: Private

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

hazardous waste at any time

Distance Elevation Site

Site Database(s) EPA ID Number

VIKING CORPORATION (Continued)

1000256875

EDR ID Number

Owner/Operator Summary:

Owner/operator name: THOMAS T GROOS

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 08/05/1999
Owner/Op end date: Not reported

Owner/operator name: THOMAS T GROOS

Owner/operator address: Not reported Not reported

Owner/operator country:

Owner/operator telephone:

Legal status:

Owner/Operator Type:

Owner

Owner/Op start date:

Owner/Op end date:

Not reported

Not reported

Not reported

Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 12/01/2009
Facility name: VIKING CORP

Classification: Small Quantity Generator

Date form received by agency: 06/10/2009
Facility name: VIKING CORP

Classification: Small Quantity Generator

Date form received by agency: 02/16/2009
Facility name: VIKING CORP

Classification: Small Quantity Generator

Date form received by agency: 03/01/2008
Facility name: VIKING CORP

Classification: Large Quantity Generator

Date form received by agency: 02/12/2008

Direction Distance

Elevation Site Database(s) EPA ID Number

VIKING CORPORATION (Continued)

1000256875

EDR ID Number

Facility name: VIKING CORP

Classification: Large Quantity Generator

Date form received by agency: 04/24/2007 Facility name: VIKING CORP

Classification: Large Quantity Generator

Date form received by agency: 03/01/2006
Facility name: VIKING CORP

Classification: Large Quantity Generator

Date form received by agency: 03/01/2006
Facility name: VIKING CORP

Classification: Large Quantity Generator

Date form received by agency: 03/10/2005
Facility name: VIKING CORP

Classification: Large Quantity Generator

Date form received by agency: 03/01/2004 Facility name: VIKING CORP

Classification: Large Quantity Generator

Date form received by agency: 02/13/2004 Facility name: VIKING CORP

Classification: Large Quantity Generator

Date form received by agency: 03/26/2003 Facility name: VIKING CORP

Classification: Large Quantity Generator

Date form received by agency: 03/01/2002
Facility name: VIKING CORP

Classification: Large Quantity Generator

Date form received by agency: 02/14/2002 Facility name: VIKING CORP

Classification: Large Quantity Generator

Date form received by agency: 01/31/2001 Facility name: VIKING CORP

Classification: Large Quantity Generator

Date form received by agency: 02/23/2000 Facility name: VIKING CORP

Classification: Large Quantity Generator

Date form received by agency: 02/27/1998
Facility name: VIKING CORP

Site name: VIKING CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 02/26/1996 Facility name: VIKING CORP

Site name: VIKING CORPORATION
Classification: Large Quantity Generator

Direction Distance

Elevation Site Database(s) EPA ID Number

VIKING CORPORATION (Continued)

1000256875

EDR ID Number

Date form received by agency: 01/19/1995
Facility name: VIKING CORP

Classification: Large Quantity Generator

Date form received by agency: 01/18/1995 Facility name: VIKING CORP

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/28/1994
Facility name: VIKING CORP

Site name: VIKING CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 02/27/1992
Facility name: VIKING CORP
Site name: VIKING CORP.

Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D006
Waste name: CADMIUM

Waste code: D008 Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D035

Waste name: METHYL ETHYL KETONE

Waste code: F003

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR

Direction Distance

Elevation Site Database(s) EPA ID Number

VIKING CORPORATION (Continued)

1000256875

EDR ID Number

MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

MIXTURES.

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Biennial Reports:

Last Biennial Reporting Year: 2011

Annual Waste Handled:

Waste code: D00

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Amount (Lbs): 1504

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Amount (Lbs): 9450.9

Waste code: D006
Waste name: CADMIUM
Amount (Lbs): 6091.1

Waste code: D008
Waste name: LEAD
Amount (Lbs): 114906.5

Waste code: D009
Waste name: MERCURY
Amount (Lbs): 4100.3

Waste code: D035

Waste name: METHYL ETHYL KETONE

Amount (Lbs): 311

Waste code: F003

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT

Distance

Elevation Site Database(s) EPA ID Number

VIKING CORPORATION (Continued)

1000256875

EDR ID Number

MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

MIXTURES.

Amount (Lbs): 361

Facility Has Received Notices of Violations:

Regulation violated: Not reported

Area of violation: Universal Waste - Small Quantity Handlers

Date violation determined: 08/23/2006
Date achieved compliance: 09/26/2006
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 08/23/2006
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Paid penalty amount: 0

Regulation violated: Not reported

Area of violation: Generators - Pre-transport

Date violation determined: 08/23/2006
Date achieved compliance: 12/14/2006
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 08/23/2006
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: Not reported
Area of violation: Generators - General

Date violation determined: 04/02/1993
Date achieved compliance: 05/13/1993
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 04/02/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 04/02/1993
Date achieved compliance: 05/13/1993

Direction Distance

Elevation Site Database(s) EPA ID Number

VIKING CORPORATION (Continued)

1000256875

EDR ID Number

Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 04/02/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: Not reported
Area of violation: Generators - General

Date violation determined: 11/26/1985
Date achieved compliance: 01/23/1986
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 12/03/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Evaluation Action Summary:

Evaluation date: 08/16/2006

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - Pre-transport

Date achieved compliance: 12/14/2006 Evaluation lead agency: State

Evaluation date: 08/16/2006

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Universal Waste - Small Quantity Handlers

Date achieved compliance: 09/26/2006 Evaluation lead agency: State

Evaluation date: 12/18/2003

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:
Date achieved compliance:
Evaluation lead agency:

Not reported
Not reported
State

Evaluation date: 01/31/2001

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 03/31/1993

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: LDR - General Date achieved compliance: 05/13/1993 Evaluation lead agency: State

Evaluation date: 03/31/1993

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Direction Distance Elevation

Site Database(s) EPA ID Number

VIKING CORPORATION (Continued)

1000256875

EDR ID Number

Area of violation: Generators - General

Date achieved compliance: 05/13/1993 Evaluation lead agency: State

Evaluation date: 01/23/1986

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 11/26/1985

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 01/23/1986 Evaluation lead agency: State

FINDS:

Registry ID: 110002049097

Environmental Interest/Information System

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

WI MANIFEST:

Year: 10

EPA ID: MID006407142 FID: Not reported

ACT Code: 201 ACT Status: A ACT Code 1: 201

ACT Name: HW Generator - Large

Contact First Name: Not reported Contact Last Name: Not reported Contact Title: Not reported Contact Address: Not reported Contact State: Not reported Contact City: Not reported Contact Zip: Not reported

Direction Distance Elevation

Site Database(s) EPA ID Number

VIKING CORPORATION (Continued)

1000256875

EDR ID Number

Contact Telephone: Not reported
Contact Extention: Not reported
Contact Email Address: Not reported

WI MANIFEST SHIP:

Manifest DOC ID: 000425182VES Copy Type: **TSDCOPY** Gen EPA ID: MID006407142 Gen Date: 10/28/2010 TSD Date: 11/02/2010 TSD EPA ID: WID003967148 GEN Copy Revd Date: Not reported TSG Copy Revd Date: 11/22/2010 Manifest DOC ID: Not reported Waste Page No: Not reported Waste Line No: Not reported Waste Code: Not reported Waste Amount: Not reported Unit of Measure: Not reported Waste LBS: Not reported

WI MANIFEST TRANS: -

Mifest DOC ID: Not reported TRAN EPA ID: Not reported TRAN ORDER NO: Not reported TRAN Date: Not reported

Manifest DOC ID:
Waste Page No:
Waste Line No:
Waste Code:
Waste Amount:
Unit of Measure:
Waste LBS:
Not reported
Not reported
Not reported
Not reported
Not reported

Year: 04

EPA ID: MID006407142

FID: 0
ACT Code: 201
ACT Status: A
ACT Code 1: 201

ACT Name: HW Generator - Large

Contact First Name: Not reported Not reported Contact Last Name: Not reported Contact Title: Contact Address: Not reported Contact State: Not reported Contact City: Not reported Contact Zip: Not reported Contact Telephone: Not reported Not reported Contact Extention: Contact Email Address: Not reported

WI MANIFEST SHIP:

 Manifest DOC ID:
 000425182VES

 Copy Type:
 TSDCOPY

 Gen EPA ID:
 MID006407142

 Gen Date:
 10/28/2010

Direction Distance

Elevation Site Database(s) EPA ID Number

VIKING CORPORATION (Continued)

1000256875

EDR ID Number

TSD Date: 11/02/2010 WID003967148 TSD EPA ID: GEN Copy Revd Date: Not reported TSG Copy Revd Date: 11/22/2010 Manifest DOC ID: Not reported Waste Page No: Not reported Waste Line No: Not reported Waste Code: Not reported Not reported Waste Amount: Unit of Measure: Not reported Waste LBS: Not reported

WI MANIFEST TRANS: -

Mifest DOC ID: Not reported TRAN EPA ID: Not reported TRAN ORDER NO: Not reported TRAN Date: Not reported

Manifest DOC ID:
Waste Page No:
Waste Line No:
Waste Code:
Waste Amount:
Unit of Measure:
Waste LBS:
Not reported
Not reported
Not reported
Not reported
Not reported

G27 CITY OF HASTINGS LUST U004014511
ESE 201 S JEFFERSON UST N/A

1/4-1/2 0.415 mi.

2192 ft. Site 1 of 2 in cluster G

Relative: LUST:

Higher Facility ID: 00041814

HASTINGS, MI 49058

Source: STATE OF MICHIGAN

Actual: Owner Name: City of Hastings

801 ft. Owner Address: 201 E State St

Owner City, St, Zip: Hastings, MI 49058-1954

Owner Contact: Not reported
Owner Phone: (616) 945-5384

Country: USA

District: Grand Rapids District Office

 Site Name:
 City of Hastings

 Latitude:
 42.6476700000

 Longitude:
 -85.2876800000

 Date of Collection:
 10/26/2005

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number: C-0314-05
Release Date: 11/04/2005
Substance Released: Unknown
Release Status: Open

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CITY OF HASTINGS (Continued) Release Closed Date:

U004014511

UST:

Facility ID: 00041814 Facility Type: **CLOSED** Latitude: 42.6476700000 Longitude: -85.2876800000 Owner Name: City of Hastings 201 E State St Owner Address:

Owner City, St, Zip: Hastings, MI 49058-1954

Not reported

Owner Country: USA Owner Contact: Not reported Owner Phone: (616) 945-5384 Tim Girrbach Contact: (269) 945-2468 Contact Phone: Date of Collection: 10/26/2005 Accuracy: 100 Accuracy Value Unit: **FEET** Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: **POINT**

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID:

Tank Status: Removed from Ground

Capacity: Not reported Install Date: Not reported Product: Not reported Remove Date: 10/26/2005 Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Unknown Piping Type: Not reported Constr Material: Unknown Impressed Device: No

SBC GARAGE LUST U003328384 **525 INDUSTRIAL PARK RD UST**

1/4-1/2 0.434 mi. 2292 ft.

28 WNW

LUST: Relative:

Facility ID: 00011637 Higher Source: STATE OF MICHIGAN

HASTINGS, MI 49058

Actual: Owner Name: AT&T Michigan 781 ft. 308 S Akard Ste 1700 Owner Address: Owner City,St,Zip: Dallas, TX 75202-5399 Owner Contact: Lisa Espinosa

Owner Phone: (214) 464-1917

Country: USA

District: **Grand Rapids District Office**

Site Name: Hastings Garage 42.6529170000 Latitude: Longitude: -85.3041020000 Date of Collection: 03/08/2001

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off N/A

Direction Distance

Elevation Site Database(s) EPA ID Number

SBC GARAGE (Continued)

U003328384

EDR ID Number

Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Data: NAD83
Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number:C-0317-03Release Date:07/30/2003Substance Released:GasolineRelease Status:ClosedRelease Closed Date:12/23/2003

UST:

 Facility ID:
 00011637

 Facility Type:
 CLOSED

 Latitude:
 42.6529170000

 Longitude:
 -85.3041020000

 Owner Name:
 AT&T Michigan

 Owner Address:
 308 S Akard Ste 1700

 Owner City,St,Zip:
 Dallas, TX 75202-5399

Owner Country: USA

Owner Contact: Lisa Espinosa
Owner Phone: (214) 464-1917
Contact: Eric Speas
Contact Phone: (847) 384-5991
Date of Collection: 03/08/2001
Accuracy: 10

Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID:

Tank Status: Removed from Ground

 Capacity:
 12000

 Install Date:
 05/08/1973

 Product:
 Gasoline

 Remove Date:
 07/28/2003

Tank Release Detection: Automatic Tank Gauging

Pipe Realease Detection: Interstitial Monitoring Double Walled Piping, Interstitial

Monitoring/Second Containment

Piping Material: Double Walled, Fiberglass reinforced plastic

Piping Type: Pressure

Constr Material: Fiberglass Reinforced plastic

Impressed Device: No

G29 UNITED #6284 LUST U002300641 ESE 134 E COURT ST UST N/A

1/4-1/2 HASTINGS, MI 49058

0.439 mi.

2318 ft. Site 2 of 2 in cluster G

Relative: LUST:

Higher Facility ID: 00017014

Source: STATE OF MICHIGAN
Actual: Owner Name: Speedway LLC

799 ft.

Direction Distance

Elevation Site Database(s) EPA ID Number

UNITED #6284 (Continued)

U002300641

EDR ID Number

Owner Address: PO Box 1500
Owner City,St,Zip: Springfield, OH 45501
Owner Contact: Not reported
Owner Phone: (937) 864-3000

Country: USA

District: Grand Rapids District Office
Site Name: Emro Marketing, Hastings #6284

Latitude: 42.6476240000 Longitude: -85.2870520000 Date of Collection: 01/12/1998

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Data: NAD83
Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number:C-0249-90Release Date:02/09/1990Substance Released:Not reportedRelease Status:ClosedRelease Closed Date:02/19/2008

Leak Number:C-0688-90Release Date:04/19/1990Substance Released:Not reportedRelease Status:ClosedRelease Closed Date:02/19/2008

UST:

Facility ID: 00017014
Facility Type: CLOSED
Latitude: 42.6476240000
Longitude: -85.2870520000
Owner Name: Speedway LLC
Owner Address: PO Box 1500
Owner City,St,Zip: Springfield, OH 45501

Owner Country: USA
Owner Contact: Not reported
Owner Phone: (937) 864-3000
Contact: JOHN M HELMS
Contact Phone: (937) 864-3000
Date of Collection: 01/12/1998

Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID: A

Tank Status: Removed from Ground

 Capacity:
 8000

 Install Date:
 04/21/1961

 Product:
 Gasoline

 Remove Date:
 05/25/1997

Tank Release Detection: Inventory Control, Manual Tank Gauging, Tank Tightness Testing

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

UNITED #6284 (Continued) U002300641

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Galvanized Steel Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device:

Tank ID:

Tank Status: **Removed from Ground**

Capacity: 8000 Install Date: 04/21/1961 Product: Gasoline Remove Date: 05/25/1999

Tank Release Detection: Inventory Control, Manual Tank Gauging, Tank Tightness Testing

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Galvanized Steel Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device:

Tank ID:

Tank Status: Removed from Ground

Capacity: 8000 04/21/1961 Install Date: Product: Gasoline Remove Date: 05/25/1999

Tank Release Detection: Inventory Control, Manual Tank Gauging, Tank Tightness Testing

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Galvanized Steel Not reported Piping Type:

Constr Material: Asphalt Coated or Bare Steel

Impressed Device:

Tank ID:

Tank Status: Removed from Ground

Capacity: 8000 04/21/1961 Install Date: Product: Gasoline Remove Date: 05/25/1999

Tank Release Detection: Inventory Control, Manual Tank Gauging, Tank Tightness Testing

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Galvanized Steel Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device:

Direction Distance

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

30 THORNAPPLE GAS AND ELECTRIC CO GAS WORKS Manufactured Gas Plants 1008408113 ESE 904 E. CENTER STREET N/A

ESE 904 E. CENTER STREET 1/4-1/2 HASTINGS, MI 49058

0.441 mi. 2330 ft.

Relative: Manufactured Gas Plants:

Higher Alternate Name: CONSUMERS POWER CO. No additional information available

Actual: 803 ft.

H31 HASTINGS CITY LANDFILL (OLD) SHWS S105143846
ENE WEST STATE RD. N/A

1/4-1/2 HASTINGS, MI 49058

0.458 mi.

2417 ft. Site 1 of 2 in cluster H

Relative: SHWS:

Higher Facility ID: 8000005

Facility Status: Inactive - no actions taken to address contamination

Actual: Source: Unknown 843 ft. SAM Score: 22

SAM Score Date: 09/03/1991
Township: 03N
Range: 08W
Section: 7
Quarter: NW
Quarter/Quarter: SE

Pollutants: PCBs; Metals; Oil

H32 HASTING CITY LDFL CERC-NFRAP 1003871227
ENE WEST STATE RD MID980608442

1/4-1/2 HASTINGS, MI 49058

0.458 mi.

2417 ft. Site 2 of 2 in cluster H

Relative: CERC-NFRAP:

Higher Site ID: 0502826

Federal Facility: Not a Federal Facility

Actual: NPL Status: Not on the NPL

843 ft. Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Program Priority:

Description: Great Lakes

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY
Date Started: Not reported
Date Completed: 06/01/1981
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT

Date Started: Not reported
Date Completed: 06/28/1985

Priority Level: Higher priority for further assessment

Action: SITE INSPECTION

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

HASTING CITY LDFL (Continued)

1003871227

Date Started: Not reported 06/30/1987 Date Completed:

Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: ARCHIVE SITE Date Started: Not reported Date Completed: 06/30/1987 Priority Level: Not reported

133 **BLANKENSTEIN PONT-OLDS-GMC, INC** LUST S105213522 N/A

328 N MICHIGAN AVE **East** 1/4-1/2 HASTINGS, MI 49058

0.466 mi.

2461 ft. Site 1 of 3 in cluster I

Relative: Higher

LUST:

Facility ID: 00012418

Source: STATE OF MICHIGAN

Actual: Owner Name: OWNER ADDRESS UNKNOWN 787 ft. Owner Address: Not Recorded

> Owner City, St, Zip: Not Recorded, XX 99999

Owner Contact: Not reported Owner Phone: Not reported

Country:

District: **Grand Rapids District Office** Blankenstein Pont-olds-gmc, Inc. Site Name:

Latitude: 42.6510150000 Longitude: -85.2864120000 Date of Collection: 01/11/2001

Method of Collection: Address Matching-House Number

Accuracy: 100 Accuracy Value Unit: **FEET** Horizontal Data: NAD83 **POINT** Point Line Area:

Desc Category: Plant Entrance (Freight)

Leak Number: C-0633-98 Release Date: 07/17/1998 Substance Released: Unknown Release Status: Open Release Closed Date: Not reported

134 FORMER BLANKENSTEIN PONTIAC 328 NORTH MICHIGAN AVENUE **East**

1/4-1/2 HASTINGS, MI

0.466 mi.

2461 ft. Site 2 of 3 in cluster I

BEA: Relative:

Secondary Address: Not reported Higher

BEA Number: 424

Actual: District: **Grand Rapids** 787 ft. Date Received: 7/17/1998

Submitter Name: **Dreisbach Motors** Petition Determination: No Request

Petition Disclosure: 0

No Hazardous Substance(s) Category:

S104911298

N/A

BEA

Direction Distance

Elevation Site Database(s) **EPA ID Number**

FORMER BLANKENSTEIN PONTIAC (Continued)

S104911298

EDR ID Number

Determination 20107A: No Request Reviewer: colons

Division Assigned: Storage Tank Division

Secondary Address: Not reported

BEA Number: 431

District: **Grand Rapids** Date Received: 7/31/1998 Submitter Name: **Dreisbach Motors** Petition Determination: No Request

Petition Disclosure: 0

Same Hazardous Substance(s) Category:

Determination 20107A: No Request Reviewer: colons

Division Assigned: Storage Tank Division

Secondary Address: Not reported

BEA Number: 2911

District: **Grand Rapids**

3/18/2011 12:59:00 AM Date Received:

Submitter Name: Bryan Wilder Petition Determination: No Request Petition Disclosure:

Category: Not reported Determination 20107A: No Request Reviewer: austina

Division Assigned: Storage Tank Division

135 FORMER BLANKENSTEIN DEALERSHIP 328 NORTH MICHIGAN AVENUE

US BROWNFIELDS 1014476648

N/A

0.468 mi.

East

1/4-1/2 HASTINGS, MI 49058

Site 3 of 3 in cluster I 2471 ft.

Relative:

US BROWNFIELDS:

Higher

Recipient name: Hastings, City of Grant type: Assessment

Actual: 788 ft.

Property name: Former Blankenstein Dealership

Property #: 08-55-001-098-00

Parcel size: 1.4 Latitude: 42.650900 Longitude: 85.286200

HCM label: Interpolation-Digital Map Source (TIGER)

Map scale: Not reported

Point of reference: Center of a Facility or Station Datum: North American Datum of 1983

ACRES property ID: 129524 Start date: Not reported Completed date: Not reported Not reported Acres cleaned up: Cleanup funding: Not reported Cleanup funding source: Not reported Assessment funding: 3000

Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement

Redevelopment funding: Not reported Redev. funding source: Not reported Redev. funding entity name: Not reported Redevelopment start date: Not reported

Direction Distance Elevation

EDR ID Number
Site Database(s) EPA ID Number

FORMER BLANKENSTEIN DEALERSHIP (Continued)

1014476648

Assessment funding entity: EPA
Cleanup funding entity: Not reported

Grant type: H

Accomplishment type: Phase I Environmental Assessment

Ownership entity: Not reported Current owner: Not reported Did owner change: Not reported

Cleanup required: No Video available: No Photo available: Yes Institutional controls required: N

IC Category proprietary controls: Not reported IC cat. info. devices: Not reported IC cat. gov. controls: Not reported IC cat. enforcement permit tools: Not reported IC in place date: Not reported IC in place: No

State/tribal program date: Not reported State/tribal program ID: Not reported State/tribal NFA date: Not reported Air contaminated: Not reported Air cleaned: Not reported Not reported Asbestos found: Asbestos cleaned: Not reported Controled substance found: Not reported Not reported Controled substance cleaned: Drinking water affected: Not reported Drinking water cleaned: Not reported

Groundwater affected: Y

Groundwater cleaned: Not reported

Lead contaminant found: Y

Lead cleaned up: Not reported
No media affected: Not reported
Unknown media affected: Not reported
Other cleaned up: Not reported

Other metals found:

Other metals cleaned: Not reported Other contaminants found: Not reported Other contams found description: Not reported

PAHs found: Y

PAHs cleaned up:

PCBs found:

PCBs cleaned up:

Petro products found:

Petro products cleaned:

Petro products cleaned:

Sediments found:

Not reported

Soil affected:

Soil cleaned up: Not reported Surface water cleaned: Not reported Unknown found: Not reported

VOCs found: Y

VOCs cleaned:
Cleanup other description:
Not reported
Num. of cleanup and re-dev. jobs: Not reported
Past use greenspace acreage:
Not reported
Not reported
Not reported
Not reported
Not reported

Direction Distance Elevation

Site Database(s) **EPA ID Number**

FORMER BLANKENSTEIN DEALERSHIP (Continued)

1014476648

EDR ID Number

Past use commercial acreage: 1.4

Not reported Past use industrial acreage: Future use greenspace acreage: Not reported Future use residential acreage: Not reported

Future use commercial acreage:

Future use industrial acreage: Not reported Greenspace acreage and type: Not reported Superfund Fed. landowner flag: Not reported

Recipient name: Hastings, City of Grant type: Assessment

Property name: Former Blankenstein Dealership

Property #: 08-55-001-098-00

Parcel size: Latitude: 42.650900 Longitude: 85.286200

HCM label: Interpolation-Digital Map Source (TIGER)

Not reported Map scale:

Point of reference: Center of a Facility or Station Datum: North American Datum of 1983

ACRES property ID: 129524 Start date: Not reported Not reported Completed date: Acres cleaned up: Not reported Cleanup funding: Not reported Cleanup funding source: Not reported Assessment funding: Not reported Assessment funding source: Not reported Redevelopment funding: 200000 Local Funding Redev. funding source: Mr. Bryan Wilder Redev. funding entity name: 18-MAR-11 Redevelopment start date: Assessment funding entity: Not reported Cleanup funding entity: Not reported Grant type: Н

Accomplishment type: Not reported Ownership entity: Not reported Current owner: Not reported Did owner change: Not reported

Cleanup required: No Video available: No Photo available: Yes Institutional controls required: Ν

IC Category proprietary controls: Not reported IC cat. info. devices: Not reported IC cat. gov. controls: Not reported IC cat. enforcement permit tools: Not reported IC in place date: Not reported IC in place: No State/tribal program date: Not reported State/tribal program ID: Not reported State/tribal NFA date: Not reported

Air contaminated: Not reported Air cleaned: Not reported Asbestos found: Not reported Asbestos cleaned: Not reported Controled substance found: Not reported

Direction Distance Elevation

tance EDR ID Number vation Site Database(s) EPA ID Number

FORMER BLANKENSTEIN DEALERSHIP (Continued)

1014476648

Controled substance cleaned: Not reported Drinking water affected: Not reported Drinking water cleaned: Not reported

Groundwater affected: Y

Groundwater cleaned: Not reported

Lead contaminant found: Y

Lead cleaned up: Not reported No media affected: Not reported Unknown media affected: Not reported Other cleaned up: Not reported

Other metals found: Y

Other metals cleaned: Not reported Other contaminants found: Not reported Other contams found description: Not reported

PAHs found: Y

PAHs cleaned up:

PCBs found:

PCBs cleaned up:

Petro products found:

Petro products cleaned:

Sediments found:

Not reported

Soil affected:

Soil cleaned up: Not reported Surface water cleaned: Not reported Unknown found: Not reported

VOCs found: Y

VOCs cleaned: Not reported Cleanup other description: Not reported

Num. of cleanup and re-dev. jobs:3

Past use greenspace acreage: Not reported Past use residential acreage: Not reported

Past use commercial acreage: 1.4

Past use industrial acreage: Not reported Future use greenspace acreage: Not reported Future use residential acreage: Not reported

Future use commercial acreage: 1.4

Future use industrial acreage: Not reported Greenspace acreage and type: Not reported Superfund Fed. landowner flag: Not reported

Recipient name: Hastings, City of Grant type: Assessment

Property name: Former Blankenstein Dealership

Property #: 08-55-001-098-00

 Parcel size:
 1.4

 Latitude:
 42.650900

 Longitude:
 85.286200

HCM label: Interpolation-Digital Map Source (TIGER)

Map scale: Not reported

Point of reference: Center of a Facility or Station
Datum: North American Datum of 1983

ACRES property ID: 129524
Start date: Not reported
Completed date: Not reported
Acres cleaned up: Not reported
Cleanup funding: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FORMER BLANKENSTEIN DEALERSHIP (Continued)

1014476648

Cleanup funding source: Not reported 29000

Assessment funding: Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement

Redevelopment funding: Not reported Redev. funding source: Not reported Redev. funding entity name: Not reported Redevelopment start date: Not reported Assessment funding entity: **EPA** Cleanup funding entity: Not reported

Grant type:

Accomplishment type: Phase II Environmental Assessment

Not reported

Not reported

Ownership entity: Not reported Current owner: Not reported Did owner change: Not reported

Cleanup required: No Video available: No Photo available: Yes Institutional controls required: Ν IC Category proprietary controls: Not reported

IC cat. info. devices: Not reported IC cat. gov. controls: Not reported IC cat. enforcement permit tools: Not reported Not reported IC in place date: IC in place: No State/tribal program date: Not reported State/tribal program ID: Not reported State/tribal NFA date: Not reported Air contaminated: Not reported Air cleaned: Not reported Asbestos found: Not reported Asbestos cleaned: Not reported Controled substance found: Not reported

Drinking water cleaned: Not reported Groundwater affected:

Controled substance cleaned:

Drinking water affected:

Groundwater cleaned: Not reported

Lead contaminant found:

Lead cleaned up: Not reported No media affected: Not reported Unknown media affected: Not reported Other cleaned up: Not reported

Other metals found:

Other metals cleaned: Not reported Other contaminants found: Not reported Other contams found description: Not reported

PAHs found:

PAHs cleaned up: Not reported PCBs found: Not reported Not reported PCBs cleaned up: Petro products found: Not reported Petro products cleaned: Not reported Sediments found: Not reported Sediments cleaned: Not reported

Soil affected:

Not reported Soil cleaned up: Surface water cleaned: Not reported

Direction Distance

EDR ID Number Elevation **EPA ID Number** Site Database(s)

FORMER BLANKENSTEIN DEALERSHIP (Continued)

1014476648

Unknown found: Not reported

VOCs found:

VOCs cleaned: Not reported Cleanup other description: Not reported Num. of cleanup and re-dev. jobs: Not reported Past use greenspace acreage: Not reported Past use residential acreage: Not reported

Past use commercial acreage: 1.4

Past use industrial acreage: Not reported Future use greenspace acreage: Not reported Future use residential acreage: Not reported

Future use commercial acreage: 1.4

Future use industrial acreage: Not reported Greenspace acreage and type: Not reported Superfund Fed. landowner flag: Not reported

Property Highlights: The Property consists of approximately 1.4 acres of land developed

> with two buildings. The northernmost building approximately 6,588 square feet was formerly occupied by the automobile dealership, and

contains an office, showroom and auto service ceenter. The

southernmost building approximately 1,380 square feet was formerly used as a gasoline service station. The remainder of the Property is covered with asphalt pavement, gravel, and grass. Utilities currently provided to the Property includde municipal water and sanitary and storm sewers provided by the City of Hastings, and natural gas and electrical service provided by Consumers Energy. The

Property is bordered on the south and west by the Thornapple River and is in an area of mixeed residential and commercial use.

Property Description: In 1890, the earliest date of readily available information, the

Property was developed with a building in which a grain mill, cider mill and tannery operated. By 1896, a portion of the Thornapple River was diverted to a mill race which serviced thee Property. In 1900, one storage building, one stable, and one blacksmith shop were built on the northern portion of the Property. By 1909, the tannery was no longer in use. As of 1916, the northernmost storage building was removed from the Properrty, the central storage building was used as a motorcycle repair shop, and the mill was also used for carpet cleaning. By 1928, the mill and other structures on the Property were removed and the mill race was filled to the current river bank contouur. A gasoline filling station was located on the northeast corner of the Property at this time. A second gas station with service operations was built on the southern portion of the Property in 1954. Also in 1954, an automobile dealership with aservice garage was constructed on the northern portion of the Property the former filling station in this area was no longer present. The automobile dealership and service buildings operated on the Property until

approximately 2007.

J36 **NEWTON LUMBER CO CERC-NFRAP** 1003871333 **ESE** 128 S MICHIGAN **DEL SHWS** MID980678924

1/4-1/2 0.473 mi.

2499 ft. Site 1 of 6 in cluster J

CERC-NFRAP: Relative:

Site ID: 0502957 Higher

HASTINGS, MI 49058

Federal Facility: Not a Federal Facility Actual: NPL Status: Not on the NPL

793 ft. Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

NEWTON LUMBER CO (Continued)

1003871333

Program Priority:

GAO Survey (RCED-99-22B) Description:

Description: **Great Lakes**

CERCLIS-NFRAP Assessment History:

DISCOVERY Action: Date Started: Not reported Date Completed: 03/01/1980 Priority Level: Not reported

PRELIMINARY ASSESSMENT Action:

Date Started: Not reported Date Completed: 06/10/1987

Priority Level: Low priority for further assessment

SITE INSPECTION Action: Date Started: Not reported 11/06/1989 Date Completed:

Priority Level: Higher priority for further assessment

Action: ARCHIVE SITE Date Started: Not reported 01/13/2000 Date Completed: Priority Level: Not reported

DELETED HWS:

Facility ID: 08000011

Status: Deleted - available documentation does not support listing

S108669787 J37 **202 EAST STATE STREET** BEA N/A

East **202 EAST STATE STREET** 1/4-1/2 HASTINGS, MI 49058 0.474 mi.

2504 ft. Site 2 of 6 in cluster J

BEA: Relative:

Secondary Address: Not reported Higher

BEA Number: 2141 District:

Actual: **Grand Rapids** 791 ft. 8/14/2007 12:59:00 AM Date Received:

Salingue Properties LLC Submitter Name:

Petition Determination: No Request

Petition Disclosure:

Category: No Hazardous Substance(s)

Determination 20107A: No Request Reviewer: austina

Division Assigned: Storage Tank Division

Direction Distance

Elevation Site Database(s) EPA ID Number

J38 FORMER FELPAUSCH PROPERTY #1 US BROWNFIELDS 1014476654
East 127 SOUTH MICHIGAN AVENUE N/A

1/4-1/2 HASTINGS, MI 49058

0.475 mi.

2508 ft. Site 3 of 6 in cluster J

Relative:

US BROWNFIELDS:

Higher Recipient name: Hastings, City of Grant type: Assessment

Actual: Property name: Former Felpausch Property #1

793 ft.

Property #: Not reported Parcel size: 4.03
Latitude: 42.647300
Longitude: 85.285300

HCM label: Interpolation-Digital Map Source (TIGER)

Map scale: Not reported

Point of reference: Center of a Facility or Station
Datum: North American Datum of 1983

ACRES property ID: 114267
Start date: Not reported
Completed date: Not reported
Acres cleaned up: Not reported
Cleanup funding: Not reported
Cleanup funding source: Not reported

Assessment funding: 1200

Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement

Redevelopment funding:
Redev. funding source:
Redev. funding entity name:
Redevelopment start date:
Assessment funding entity:

Not reported
Not reported
EPA

Cleanup funding entity: Not reported

Grant type:

Accomplishment type: Phase I Environmental Assessment

Ownership entity:

Current owner:

Did owner change:

Cleanup required:

Video available:

Photo available:

Institutional controls required:

No reported

Unknown

No

Yes

No

IC Category proprietary controls: Not reported IC cat. info. devices: Not reported IC cat. gov. controls: Not reported IC cat. enforcement permit tools: Not reported IC in place date: Not reported

IC in place: No

State/tribal program date: Not reported State/tribal program ID: Not reported State/tribal NFA date: Not reported Air contaminated: Not reported Not reported Air cleaned: Asbestos found: Not reported Asbestos cleaned: Not reported Controled substance found: Not reported Controled substance cleaned: Not reported Drinking water affected: Not reported Drinking water cleaned: Not reported Groundwater affected: Not reported

EDR ID Number

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FORMER FELPAUSCH PROPERTY #1 (Continued)

1014476654

Groundwater cleaned: Not reported Not reported Lead contaminant found: Lead cleaned up: Not reported Not reported No media affected: Unknown media affected:

Other cleaned up: Not reported Other metals found: Not reported Other metals cleaned: Not reported Other contaminants found: Not reported Other contams found description: Not reported PAHs found: Not reported PAHs cleaned up: Not reported

PCBs found: Not reported PCBs cleaned up: Not reported Petro products found: Not reported Petro products cleaned: Not reported Not reported Sediments found: Sediments cleaned: Not reported Soil affected: Not reported Soil cleaned up: Not reported Surface water cleaned: Not reported

Unknown found:

VOCs found: Not reported VOCs cleaned: Not reported Cleanup other description: Not reported Num. of cleanup and re-dev. jobs: Not reported Past use greenspace acreage: Not reported Past use residential acreage: Not reported

Past use commercial acreage: 4.03

Past use industrial acreage: Not reported Future use greenspace acreage: Not reported Future use residential acreage: Not reported

Future use commercial acreage: 4.03

Future use industrial acreage: Not reported Not reported Greenspace acreage and type: Not reported Superfund Fed. landowner flag:

J39 **GROCERY STORE** East 127 S MICHIGAN 1/4-1/2 HASTINGS, MI 49058

0.475 mi.

2508 ft. Site 4 of 6 in cluster J

AIRS: Relative: Higher

1992 El Year: State Registration Number: K2220

Actual: Naics Code: Not reported 793 ft. Contact Name: Not reported Contact Phone: Not reported

> Contact Address: Not reported Contact City, St, Zip: Not reported Permit Number: Not reported Not reported Date Received: State Registration Number: K2220

Country: Not reported Application Reason: Not reported Record Type: Not reported State County FIPS: Not reported S108669779

N/A

AIRS

BEA

Direction Distance

Elevation Site Database(s) EPA ID Number

GROCERY STORE (Continued) S108669779

Facility Category:

SIC Primary:

Tribal Code:

Supplemental Location Text:

Dun & Brad Street Number:

Not reported

Not reported

Not reported

Business Name: FELPAUSCH FOOD CENTER

Principal Product: Not reported
Principal Product Description: Not reported

UTM Zone (Geo Coordinates Universal Transverse Mercator System): Not reported

UTM Horizontal Coord: Not reported **UTM Vertical Coord:** Not reported Mailing Name: Not reported Mailing Contact Person: Not reported Mailing Street: Not reported Mailing City: Not reported Mailing State: Not reported Not reported Mailing Zip: Mailing Zip 4 Extension: Not reported Compliance Person: Not reported Compliance Area Code: Not reported Compliance Phone Number: Not reported

Emission Inventory Contact Person: PARKER T FELDPAUSCH

El Contact Area Code: 616
El Contact Phone Number: 9453485
Permit Contact Person: Not reported
Permit Contact Person Area Code: Not reported
Permit Contact Person Phone Number: Not reported

Federal Employer Id Number: 0
Of Employees: 60
Reporting Year: 77

Date Record Was Created: Not reported

BEA:

Secondary Address: Not reported BEA Number: 2148 District: Grand Rapids

Date Received: 8/24/2007 12:59:00 AM
Submitter Name: Prevo's Family Markets Inc.

Petition Determination: No Request

Petition Disclosure: 0

Category: Different Hazardous Substance(s)

Determination 20107A: No Request Reviewer: wierzbid

Division Assigned: Environmental Response Division

 40
 HASTINGS SHELL
 LUST
 U003328495

 ESE
 135 E GREEN ST
 UST
 N/A

1/4-1/2 HASTINGS, MI 49058 0.492 mi.

2599 ft.

Relative: LUST:

Higher Facility ID: 00013285

Source: STATE OF MICHIGAN

Actual: Owner Name: Walters Dimmick Petroleum

805 ft. Owner Address: 1620 S Kalamazoo Ave

Owner City,St,Zip: Marshall, MI 49068

EDR ID Number

Direction
Distance

Elevation Site Database(s) EPA ID Number

HASTINGS SHELL (Continued)

U003328495

EDR ID Number

Owner Contact: Not reported
Owner Phone: (269) 781-4654

Country: USA

District: Grand Rapids District Office

 Site Name:
 Shell Spee-d-mart

 Latitude:
 42.6462220000

 Longitude:
 -85.2866880000

 Date of Collection:
 03/28/2006

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number: C-0704-00
Release Date: 07/28/2000
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

UST:

 Facility ID:
 00013285

 Facility Type:
 ACTIVE

 Latitude:
 42.6462220000

 Longitude:
 -85.2866880000

Owner Name: Walters Dimmick Petroleum
Owner Address: 1620 S Kalamazoo Ave
Owner City, St, Zip: Marshall, MI 49068

Owner Country: USA
Owner Contact: Not reported
Owner Phone: (269) 781-4654
Contact: Terry Dale
Contact Phone: (269) 781-4654
Date of Collection: 03/28/2006
Accuracy: 100

Accuracy Value Unit: FEET Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID:

Tank Status: Removed from Ground

 Capacity:
 10000

 Install Date:
 04/03/1981

 Product:
 Gasoline

 Remove Date:
 10/20/2003

Tank Release Detection: Automatic Tank Gauging, Inventory Control

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Double Walled, Fiberglass reinforced plastic

Piping Type: Pressure

Constr Material: Cathodically Protected Steel

Impressed Device: No

Tank ID: 2

Direction Distance

Elevation Site Database(s) EPA ID Number

HASTINGS SHELL (Continued)

U003328495

EDR ID Number

Tank Status: Removed from Ground

Capacity: 8000
Install Date: 04/03/1981
Product: Gasoline
Remove Date: 10/20/2003

Tank Release Detection: Automatic Tank Gauging, Inventory Control

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Double Walled, Fiberglass reinforced plastic

Piping Type: Pressure

Constr Material: Cathodically Protected Steel

Impressed Device: No

Tank ID: 3

Tank Status: Removed from Ground

 Capacity:
 6000

 Install Date:
 04/03/1981

 Product:
 Gasoline

 Remove Date:
 10/20/2003

Tank Release Detection: Automatic Tank Gauging, Inventory Control

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Double Walled, Fiberglass reinforced plastic

Piping Type: Pressure

Constr Material: Cathodically Protected Steel

Impressed Device: No

Tank ID: 4

Tank Status: Closed in Ground

 Capacity:
 6000

 Install Date:
 04/04/1971

 Product:
 Diesel

 Remove Date:
 10/20/2003

Tank Release Detection: Automatic Tank Gauging, Inventory Control

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Double Walled, Fiberglass reinforced plastic

Piping Type: Pressure

Constr Material: Asphalt Coated or Bare Steel, Lined Interier

Impressed Device: No

Tank ID: 5

Tank Status: Removed from Ground

 Capacity:
 2000

 Install Date:
 04/03/1976

 Product:
 Kerosene

 Remove Date:
 10/20/2003

Tank Release Detection: Automatic Tank Gauging, Inventory Control

Pipe Realease Detection: Line Tightness Testing

Piping Material: Double Walled, Fiberglass reinforced plastic

Piping Type: Suction: No Valve At Tank

Constr Material: Asphalt Coated or Bare Steel, Lined Interier

Impressed Device: No

Tank ID: 6

Tank Status: Currently In Use

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

HASTINGS SHELL (Continued)

U003328495

Capacity: 25000 Install Date: 10/24/2003 Product: Gasoline Remove Date: Not reported

Tank Release Detection: Inventory Control, Automatic Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Double Walled, Flexible Piping

Piping Type: Pressure

Constr Material: Fiberglass Reinforced Plastic, Double Walled

Impressed Device: No

Tank ID:

Tank Status: Currently In Use

Capacity: 15000 10/24/2003 Install Date: Gasoline, Diesel Product: Remove Date: Not reported

Tank Release Detection: Inventory Control, Automatic Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Piping Material: Double Walled, Flexible Piping

Piping Type: Pressure

Fiberglass Reinforced Plastic, Double Walled Constr Material:

Impressed Device:

Tank ID:

Tank Status: Currently In Use

Capacity: 3000 Install Date: 11/04/2003 Product: Kerosene Remove Date: Not reported

Tank Release Detection: Inventory Control, Automatic Tank Gauging

Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Fiberglass Reinforced Plastic, Double Walled Piping Material:

Suction: No Valve At Tank Piping Type:

Fiberglass Reinforced Plastic, Double Walled Constr Material:

Impressed Device: No

J41 STATE AND APPLE SHWS S104911713 **East** 227 E STATE ST **LUST** N/A **BROWNFIELDS** 1/4-1/2 HASTINGS, MI 0.492 mi. BEA

2599 ft. Site 5 of 6 in cluster J

SHWS: Relative:

Facility ID: 8000092 Higher

Facility Status: See Leaking Underground Storage Tank Site Database

Actual: Source: Gasoline Service Station

789 ft. SAM Score: 34 SAM Score Date: 07/14/2006

Township: 3N Range: 8W Section: 17 Quarter: NW Quarter/Quarter: SE

1,2,4 TMB; 1,3,5 TMB; Benzene; Ethylbenzene; Xylenes Pollutants:

Direction Distance Elevation

evation Site Database(s) EPA ID Number

STATE AND APPLE (Continued)

S104911713

EDR ID Number

LUST:

Facility ID: 00036509

Source: STATE OF MICHIGAN

Owner Name: Paul R Fruin
Owner Address: C58 CULBERT DR
Owner City,St,Zip: HASTINGS, MI 49508
Owner Contact: Not reported

Owner Contact: Not reported Owner Phone: (616) 945-3831

Country: USA

District: Grand Rapids District Office

 Site Name:
 State And Apple

 Latitude:
 42.6488120000

 Longitude:
 -85.2857120000

 Date of Collection:
 01/11/2001

Method of Collection: Address Matching-House Number

Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number: C-2050-92
Release Date: 11/16/1992
Substance Released: Gasoline
Release Status: Open
Release Closed Date: Not reported

BROWNFIELD:

Facility ID: 00036509

Region:

Status: Not reported Properry Use: Not reported Use at Time of Listing: Not reported

BEA:

Ernie Id Number: 08000092

BEA:

Secondary Address: Not reported

BEA Number: 588
District: Grand Rapids
Date Received: 9/20/1999

Submitter Name: Acorn Chiropractic Family Health Clinic

Petition Determination: Affirmed Petition Disclosure: 1

Category: No Hazardous Substance(s)

Determination 20107A: No Request Reviewer: colons

Division Assigned: Storage Tank Division

Secondary Address: Not reported
BEA Number: 1375
District: Grand Rapids

Date Received: 3/10/2004 12:59:00 AM
Submitter Name: Hastings Public Library System

Petition Determination: Affirmed Petition Disclosure: 1

Category: No Hazardous Substance(s)

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

STATE AND APPLE (Continued) S104911713

Determination 20107A: Affirmed Reviewer: christec

Division Assigned: Storage Tank Division

J42 FORMER FELPAUSCH PROPERTY #4 US BROWNFIELDS 1014476657
East 234 EAST STATE STREET N/A

East 234 EAST STATE STRE 1/4-1/2 HASTINGS, MI 49058

0.499 mi.

2633 ft. Site 6 of 6 in cluster J

Relative: Higher US BROWNFIELDS:
Recipient name:
Grant type:
Hastings, City of
Assessment

Actual: 789 ft.

Property name: Former Felpausch Property #4

Property #: Not reported
Parcel size: .08
Latitude: 42.647300
Longitude: 85.285300

HCM label: Interpolation-Digital Map Source (TIGER)

Map scale: Not reported

Point of reference: Center of a Facility or Station
Datum: North American Datum of 1983

ACRES property ID: 114270
Start date: Not reported
Completed date: Not reported
Acres cleaned up: Not reported
Cleanup funding: Not reported
Cleanup funding source: Not reported

Assessment funding: 700

Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement

Redevelopment funding:
Redev. funding source:
Redev. funding entity name:
Redevelopment start date:
Assessment funding entity:
Cleanup funding entity:
Grant type:

Not reported
Not reported
EPA
Not reported
H

Accomplishment type: Phase I Environmental Assessment

Ownership entity:
Current owner:
Did owner change:
Cleanup required:
Video available:
Photo available:
Institutional controls required:
Not reported
Unknown
No
Yes
Institutional controls required:
N

IC Category proprietary controls: Not reported IC cat. info. devices: Not reported IC cat. gov. controls: Not reported IC cat. enforcement permit tools: Not reported IC in place date: Not reported IC in place: No

State/tribal program date:
State/tribal program ID:
State/tribal program ID:
Not reported
State/tribal NFA date:
Not reported
Air contaminated:
Not reported
Air cleaned:
Asbestos found:
Asbestos cleaned:
Not reported
Not reported
Not reported
Not reported
Not reported
Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FORMER FELPAUSCH PROPERTY #4 (Continued)

1014476657

Controled substance found: Not reported Controled substance cleaned: Not reported Drinking water affected: Not reported Not reported Drinking water cleaned: Groundwater affected: Not reported Groundwater cleaned: Not reported Lead contaminant found: Not reported Lead cleaned up: Not reported No media affected: Not reported

Unknown media affected:

Other cleaned up: Not reported Other metals found: Not reported Other metals cleaned: Not reported Other contaminants found: Not reported Other contams found description: Not reported PAHs found: Not reported Not reported PAHs cleaned up: PCBs found: Not reported PCBs cleaned up: Not reported Petro products found: Not reported Petro products cleaned: Not reported Sediments found: Not reported Not reported Sediments cleaned: Soil affected: Not reported Soil cleaned up: Not reported Surface water cleaned: Not reported

Unknown found:

VOCs found: Not reported VOCs cleaned: Not reported Not reported Cleanup other description: Num. of cleanup and re-dev. jobs: Not reported Past use greenspace acreage: Not reported Past use residential acreage: Not reported

Past use commercial acreage: .08

Not reported Past use industrial acreage: Future use greenspace acreage: Not reported Future use residential acreage: Not reported

Future use commercial acreage: .08

Future use industrial acreage: Not reported Greenspace acreage and type: Not reported Not reported Superfund Fed. landowner flag:

HASTINGS BUILDING PRODUCTS

43 **ESE 429 S MICHIGAN AVE** 1/2-1 HASTINGS, MI 49058

0.545 mi. 2878 ft.

RCRA-NonGen: Relative:

Date form received by agency: 12/21/2000 Higher

Facility name: HASTINGS BUILDING PRODUCTS

Actual: Facility address: 429 S MICHIGAN AVE 799 ft.

HASTINGS, MI 49058

EPA ID: MID006023733 Contact: ROY WILCOX Contact address: 429 S MICHIGAN AVE

HASTINGS, MI 49058

Contact country: US 1000413252

MID006023733

RCRA-NonGen

FINDS

SHWS

Direction Distance

Elevation Site Database(s) EPA ID Number

HASTINGS BUILDING PRODUCTS (Continued)

1000413252

EDR ID Number

Contact telephone: (616) 945-3461 Contact email: Not reported

EPA Region: 05

Land type: Other land type Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE

Owner/operator address:

Owner/operator country:

Owner/operator telephone:

Legal status:

Not reported
Not reported
Not reported
Private
Private

Owner/Operator Type: Operator
Owner/Op start date: 08/20/1999
Owner/Op end date: Not reported

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE

Owner/operator address: Not reported

Not reported

Owner/operator country:
Owner/operator telephone:
Legal status:
Owner/Operator Type:
Owner
Owner/Op start date:
Owner/Op end date:
Not reported
Not reported
Not reported
Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: Nο Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No No Used oil transporter:

Historical Generators:

Date form received by agency: 08/18/1980

Facility name: HASTINGS BUILDING PRODUCTS

Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE

Distance Elevation

vation Site Database(s) EPA ID Number

HASTINGS BUILDING PRODUCTS (Continued)

1000413252

EDR ID Number

FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Facility Has Received Notices of Violations:

Regulation violated: Not reported

Area of violation: Generators - General

Date violation determined: 09/13/1988
Date achieved compliance: 01/23/1989
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 10/11/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Paid penalty amount: 0

Regulation violated: Not reported

Area of violation: Generators - General

Date violation determined: 09/15/1987
Date achieved compliance: 08/19/1988
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/17/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0

Regulation violated: Not reported
Area of violation: Generators - General

0

Date violation determined: 04/23/1986
Date achieved compliance: 05/12/1986
Violation lead agency: State

Paid penalty amount:

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 03/20/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0

Proposed penalty amount: 0 Final penalty amount: 0 Paid penalty amount: 0

Regulation violated: Not reported
Area of violation: Generators - General

Date violation determined: 03/19/1986
Date achieved compliance: 05/12/1986
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 03/20/1986 Enf. disposition status: Not reported Enf. disp. status date: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

HASTINGS BUILDING PRODUCTS (Continued)

1000413252

EDR ID Number

Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: Not reported
Area of violation: Generators - General

Date violation determined: 11/22/1985
Date achieved compliance: 05/12/1986
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL Enforcement action date: 11/25/1985

Enforcement action date:
Enf. disposition status:
Enf. disp. status date:
Enforcement lead agency:
Proposed penalty amount:
Final penalty amount:
Paid penalty amount:

11/25/1985
Not reported
State
0
0
0

Evaluation Action Summary:

Evaluation date: 01/23/1989

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/13/1988

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 01/23/1989 Evaluation lead agency: State

Evaluation date: 09/15/1987

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 08/19/1988 Evaluation lead agency: State

Evaluation date: 05/12/1986

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/23/1986

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation: Generators - General

Date achieved compliance: 05/12/1986 Evaluation lead agency: State

Evaluation date: 03/19/1986

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation: Generators - General

Date achieved compliance: 05/12/1986 Evaluation lead agency: State

Evaluation date: 11/22/1985

Direction Distance

Elevation Site Database(s) EPA ID Number

HASTINGS BUILDING PRODUCTS (Continued)

1000413252

EDR ID Number

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 05/12/1986 Evaluation lead agency: State

FINDS:

Registry ID: 110008444166

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

SHWS:

Facility ID: 8000048

Facility Status: Interim Response in progress
Source: Misc Manufacturing Industries

SAM Score: 25
SAM Score Date: 02/17/2004
Township: 03n
Range: 08w
Section: 17
Quarter: SW
Quarter/Quarter: NE

Pollutants: Benzene; VC

44 CONSUMERS ENERGY MGP-HASTINGS Manufactured Gas Plants 1012008467

ESE 904 E. CENTER N/A

1/2-1 HASTINGS, MI 49058

0.594 mi. 3137 ft.

Relative: Manufactured Gas Plants:

Higher No additional information available

Actual: 794 ft.

45 GREEN & BOLTWOOD DEL SHWS S105965534
ESE GREEN & BOLTWOOD N/A

ESE GREEN & BOLTWOOD 1/2-1 HASTINGS, MI 49058

0.605 mi. 3193 ft.

Relative: DELETED HWS:

Higher Facility ID: 08000016

Status: Deleted - available documentation does not support listing

Actual: 795 ft.

Direction Distance

Distance Elevation Site EDR ID Number Database(s) EPA ID Number

46 HASTINGS MANUFACTURING COMPANY, LLC. SHWS S107696092

East 325 NORTH HANOVER STREET LUST N/A

1/2-1 HASTINGS, MI 49058 AIRS 0.619 mi. BEA 3267 ft.

Relative: SHWS:

Higher Facility ID: 8000019

Facility Status: Interim Response in progress

Actual: Source: Plating & Polishing

790 ft. SAM Score: 46

SAM Score Date: 02/13/2004
Township: 03N
Range: 03W
Section: 17
Quarter: NW
Quarter/Quarter: NE

Pollutants: Benzene; Ethylbenzene; Toluene; Xylenes

LUST:

Facility ID: 00017083

Source: STATE OF MICHIGAN
Owner Name: Hastings Mfg Co
Owner Address: 325 N Hanover St
Owner City, St, Zip: Hastings, MI 49058-1527

Owner Contact: Not reported
Owner Phone: (616) 945-2491

Country: USA

District: Grand Rapids District Office
Site Name: Hastings Manufacturing Co

Latitude: 42.6518710000 Longitude: -85.2820750000 Date of Collection: 10/21/2003

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Accuracy: 10

Accuracy Value Unit: METERS
Horizontal Data: NAD83
Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number: C-0029-11
Release Date: 03/17/2011
Substance Released: Gasoline
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-0792-98
Release Date: 08/24/1998
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

AIRS:

El Year: 2011
State Registration Number: A0171
Naics Code: Not reported

Contact Name: THOMAS CLEVELAND

Contact Phone: 616945-2491

Contact Address: HASTINGS MANUFACTURING CO.

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s) **EPA ID Number**

HASTINGS MANUFACTURING COMPANY, LLC. (Continued)

S107696092

EDR ID Number

Contact Address 2: 325 NORTH HANOVER HASTINGS, MI 49058 Contact City, St, Zip: Permit Number: 277-86 Date Received: 05/07/1986 State Registration Number: A0171 Country: Not reported FUME SCRUBBER Application Reason: Record Type: Not reported State County FIPS: Not reported Facility Category: Not reported SIC Primary: Not reported Tribal Code: Not reported Supplemental Location Text: Not reported Dun & Brad Street Number: Not reported

UTM Zone (Geo Coordinates Universal Transverse Mercator System): Not reported **UTM Horizontal Coord:** Not reported

Not reported

Not reported

Not reported

UTM Vertical Coord: Not reported Mailing Name: Not reported Mailing Contact Person: Not reported Mailing Street: Not reported Mailing City: Not reported Mailing State: Not reported Mailing Zip: Not reported Mailing Zip 4 Extension: Not reported Compliance Person: Not reported Compliance Area Code: Not reported Compliance Phone Number: Not reported Emission Inventory Contact Person: Not reported El Contact Area Code: Not reported El Contact Phone Number: Not reported Permit Contact Person: Not reported Not reported Permit Contact Person Area Code: Not reported Permit Contact Person Phone Number: Not reported Federal Employer Id Number: # Of Employees: Not reported Reporting Year: Not reported Date Record Was Created: Not reported

BEA:

Business Name:

Principal Product:

Principal Product Description:

Secondary Address: Not reported BEA Number: 1790

District: **Grand Rapids** 3/3/2006 12:59:00 AM Date Received:

Submitter Name: Hastings Manufacturing Co., LLC

Petition Determination: No Request

Petition Disclosure: 0

Category: Same Hazardous Substance(s)

Determination 20107A: No Request Reviewer:

Division Assigned: Storage Tank Division Count: 16 records. ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|--------------|------------|------------------------------------|--------------------------------|-------|----------------|
| BARRY COUNTY | 2011979774 | 325 HANOVER STREET | 325 HANOVER STREET | | ERNS |
| HASTINGS | S104912055 | 1000 BLK EAST STATE STREET | 1000 E BLK ST | | BEA |
| HASTINGS | 1012179953 | MI DEPT/STATE POLICE | CHARLTON PARK RD & M-70 | 49058 | RCRA-NonGen |
| HASTINGS | 1010785117 | MI DEPT/STATE POLICE | S CHARLTON PARK RD & E STATE R | 49058 | RCRA-NonGen |
| HASTINGS | S105143854 | CONSUMERS ENERGY MGP-HASTINGS | 904 E CTR | 49058 | SHWS |
| HASTINGS | 1014476525 | 12-ACRE PARCEL | W M 43 HWY | 49058 | US BROWNFIELDS |
| HASTINGS | 1009399028 | R & J INC | 1729 S M 37 HWY | 49058 | RCRA-NonGen |
| HASTINGS | A100297072 | DAN DIMOND EQUIPMENT INC | 835 N M 37 HWY | 49058 | AST |
| HASTINGS | 1012211147 | CITY ENVIRONMENTAL SERVICES LANDFI | 1899 N M43 HIGHWAY | 49058 | RCRA-CESQG |
| HASTINGS | 1011862811 | MI DEPT/TRANSPORTATION | M-43 OVER THORNAPPLE RIVER B01 | 49058 | RCRA-CESQG |
| HASTINGS | U003835030 | STATE EMPLOYEES CREDIT UNION | 202 E STATE | 49058 | LUST, UST |
| HASTINGS | S105965765 | BARRY COUNTY ROAD COMMISSION GARAG | 1727 W STATE HIGHWAY 43 | 49058 | DEL SHWS |
| HASTINGS | S106508421 | SUNDAGO DRIVE/ SUNDIAGO PARK 74 | SUNDAGO DR & SUNDIAGO PARK 74 | | DEL SHWS |
| HASTINGS | S109697862 | SUNDAGO DRIVE/ SUNDIAGO PARK 74 | SUNDAGO DR & SUNDIAGO PARK 74 | | SHWS |
| HASTINGS | U003329500 | VACANT LAND | THORN & HIGH ST | | LUST, UST |
| WAYLAND | S105143849 | CHIEF NOONDAY - ARCHWOOD | CHIEF NOONDAY RD, ARCHWOOD DR, | 49058 | SHWS |

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 06/30/2011 Source: EPA
Date Data Arrived at EDR: 07/12/2011 Telephone: N/A

Date Made Active in Reports: 09/29/2011 Last EDR Contact: 01/11/2012

Number of Days to Update: 79 Next Scheduled EDR Contact: 04/23/2012
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 06/30/2011 Source: EPA
Date Data Arrived at EDR: 07/12/2011 Telephone: N/A

Number of Days to Update: 79 Next Scheduled EDR Contact: 04/23/2012
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA Telephone: 202-564-4267 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 06/30/2011 Date Data Arrived at EDR: 07/12/2011 Date Made Active in Reports: 09/29/2011

Number of Days to Update: 79

Source: EPA Telephone: N/A

Next Scheduled EDR Contact: 04/23/2012 Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Last EDR Contact: 01/10/2012

Date of Government Version: 02/25/2011 Date Data Arrived at EDR: 03/01/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 62

Source: EPA Telephone: 703-412-9810

Last EDR Contact: 11/29/2011

Next Scheduled EDR Contact: 03/12/2012 Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010 Date Data Arrived at EDR: 01/11/2011 Date Made Active in Reports: 02/16/2011

Number of Days to Update: 36

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 01/13/2012

Next Scheduled EDR Contact: 04/23/2012 Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/25/2011 Date Data Arrived at EDR: 03/01/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 62

Source: EPA Telephone: 703-412-9810

Last EDR Contact: 11/29/2011

Next Scheduled EDR Contact: 03/12/2012 Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 08/19/2011 Date Data Arrived at EDR: 08/31/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 132

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 11/14/2011

Next Scheduled EDR Contact: 02/27/2012 Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/15/2011 Date Data Arrived at EDR: 07/07/2011 Date Made Active in Reports: 08/08/2011

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 01/05/2012

Next Scheduled EDR Contact: 04/16/2012 Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/15/2011 Date Data Arrived at EDR: 07/07/2011 Date Made Active in Reports: 08/08/2011

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 01/05/2012

Next Scheduled EDR Contact: 04/16/2012 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/15/2011 Date Data Arrived at EDR: 07/07/2011 Date Made Active in Reports: 08/08/2011

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 01/05/2012

Next Scheduled EDR Contact: 04/16/2012 Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/15/2011 Date Data Arrived at EDR: 07/07/2011 Date Made Active in Reports: 08/08/2011

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 01/05/2012

Next Scheduled EDR Contact: 04/16/2012 Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/30/2011 Date Data Arrived at EDR: 12/30/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 11

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 12/09/2011

Next Scheduled EDR Contact: 03/26/2012 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/30/2011 Date Data Arrived at EDR: 12/30/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 11

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 12/09/2011

Next Scheduled EDR Contact: 03/26/2012 Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 10/03/2011 Date Data Arrived at EDR: 10/04/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 38

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 01/18/2012

Next Scheduled EDR Contact: 04/16/2012 Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Contaminated Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 10/31/2011 Date Data Arrived at EDR: 11/02/2011 Date Made Active in Reports: 11/22/2011

Number of Days to Update: 20

Source: Department of Natural Resources & Environment

Telephone: 517-373-9541 Last EDR Contact: 08/02/2011

Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facilities Database

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 01/05/2011 Date Data Arrived at EDR: 01/07/2011 Date Made Active in Reports: 02/14/2011

Number of Days to Update: 38

Source: Department of Natural Resources & Environment

Telephone: 517-335-4035 Last EDR Contact: 12/30/2011

Next Scheduled EDR Contact: 04/16/2012 Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Sites

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground

storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 11/14/2011 Date Data Arrived at EDR: 11/22/2011 Date Made Active in Reports: 01/09/2012

Number of Days to Update: 48

Source: Department of Natural Resources & Environment

Telephone: 517-373-9837 Last EDR Contact: 11/22/2011

Next Scheduled EDR Contact: 03/05/2012 Data Release Frequency: Annually

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 11/01/2011 Date Data Arrived at EDR: 11/21/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 50

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 10/31/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011 Date Data Arrived at EDR: 09/13/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 59

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 01/30/2012

Next Scheduled EDR Contact: 05/14/2012 Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2011 Date Data Arrived at EDR: 11/01/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 10

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 11/01/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/02/2011 Date Data Arrived at EDR: 11/04/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 7

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/30/2012

Next Scheduled EDR Contact: 05/14/2012 Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 12/05/2011 Date Data Arrived at EDR: 12/07/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 34

Source: Environmental Protection Agency Telephone: 415-972-3372

Last EDR Contact: 01/30/2012

Next Scheduled EDR Contact: 05/14/2012 Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011 Date Data Arrived at EDR: 12/15/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 26

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 01/30/2012

Next Scheduled EDR Contact: 05/14/2012 Data Release Frequency: Semi-Annually

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/18/2011 Date Data Arrived at EDR: 08/19/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 25

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 01/30/2012

Next Scheduled EDR Contact: 05/14/2012 Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Underground Storage Tank Facility List

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 11/14/2011 Date Data Arrived at EDR: 11/22/2011 Date Made Active in Reports: 01/09/2012

Number of Days to Update: 48

Source: Department of Natural Resources & Environment

Telephone: 517-335-4035 Last EDR Contact: 11/22/2011

Next Scheduled EDR Contact: 03/05/2012 Data Release Frequency: Annually

UST 2: Underground Storage Tank Listing

A listing of underground storage tank site locations that have unknown owner information.

Date of Government Version: 10/24/2011 Date Data Arrived at EDR: 11/23/2011 Date Made Active in Reports: 01/09/2012

Number of Days to Update: 47

Source: Department of Environmental Quality

Telephone: 517-335-7211 Last EDR Contact: 01/23/2012

Next Scheduled EDR Contact: 05/07/2012 Data Release Frequency: Quarterly

AST: Aboveground Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 11/18/2011 Date Data Arrived at EDR: 11/30/2011 Date Made Active in Reports: 01/09/2012

Number of Days to Update: 40

Source: Department of Natural Resources & Environment

Telephone: 517-373-8168 Last EDR Contact: 11/17/2011

Next Scheduled EDR Contact: 03/05/2012 Data Release Frequency: No Update Planned

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/02/2011 Date Data Arrived at EDR: 11/04/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 7

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/30/2012

Next Scheduled EDR Contact: 05/14/2012 Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Source: EPA Region 4

Date of Government Version: 12/14/2011 Date Data Arrived at EDR: 12/15/2011 Date Made Active in Reports: 01/10/2012 Number of Days to Update: 26

Telephone: 404-562-9424 Last EDR Contact: 01/30/2012

Next Scheduled EDR Contact: 05/14/2012 Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/28/2011 Date Data Arrived at EDR: 11/29/2011 Date Made Active in Reports: 01/10/2012 Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 01/30/2012

Number of Days to Update: 42

Next Scheduled EDR Contact: 05/14/2012 Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/18/2011 Date Data Arrived at EDR: 08/19/2011 Date Made Active in Reports: 09/13/2011 Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 01/30/2012

Number of Days to Update: 25

Next Scheduled EDR Contact: 05/14/2012 Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 11/01/2011 Date Data Arrived at EDR: 11/21/2011 Date Made Active in Reports: 01/10/2012

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 10/31/2011

Number of Days to Update: 50

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 07/01/2011 Date Data Arrived at EDR: 08/26/2011 Date Made Active in Reports: 09/13/2011 Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 01/30/2012

Number of Days to Update: 18

Next Scheduled EDR Contact: 05/14/2012 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011 Date Data Arrived at EDR: 05/11/2011 Date Made Active in Reports: 06/14/2011 Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 01/30/2012

Number of Days to Update: 34

Next Scheduled EDR Contact: 05/14/2012 Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2011 Date Data Arrived at EDR: 11/01/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 10

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 10/31/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010 Date Data Arrived at EDR: 02/16/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 55

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 01/16/2012

Next Scheduled EDR Contact: 04/30/2012 Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: Engineering and Institutional Controls

A listing of sites with institutional and/or engineering controls in place.

Date of Government Version: 12/14/2011 Date Data Arrived at EDR: 12/15/2011 Date Made Active in Reports: 01/09/2012

Number of Days to Update: 25

Source: Department of Natural Resources & Environment

Telephone: 517-373-4828 Last EDR Contact: 12/05/2011

Next Scheduled EDR Contact: 03/19/2012 Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009

Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 08/04/2011 Date Data Arrived at EDR: 10/04/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 38

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 01/06/2012

Next Scheduled EDR Contact: 04/16/2012 Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields and USTfield Site Database

All state funded Part 201 and 213 sites, as well as LUST sites that have been redeveloped by private entities using the BEA process. Be aware that this is not a list of all of the potential brownfield sites in Michigan.

Date of Government Version: 11/04/2011 Date Data Arrived at EDR: 11/04/2011 Date Made Active in Reports: 11/22/2011

Number of Days to Update: 18

Source: Department of Natural Resources & Environment

Telephone: 517-373-4805 Last EDR Contact: 01/30/2012

Next Scheduled EDR Contact: 05/14/2012 Data Release Frequency: Varies

BROWNFIELDS 2: Brownfields Building and Land Site Locations

A listing of brownfield building and land site locations. The listing is a collaborative effort of Michigan Economic Development Corporation, Michigan Economic Developers Association, Detrot Edison, Detroit Area Commercial Board of Realtors

Date of Government Version: 04/09/2007 Date Data Arrived at EDR: 04/10/2007 Date Made Active in Reports: 05/01/2007

Number of Days to Update: 21

Source: Economic Development Corporation

Telephone: 888-522-0103 Last EDR Contact: 12/05/2011

Next Scheduled EDR Contact: 03/19/2012 Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/27/2011 Date Data Arrived at EDR: 06/27/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 78

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 12/27/2011

Next Scheduled EDR Contact: 04/09/2012 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 12/21/2011

Next Scheduled EDR Contact: 04/09/2012

Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

SWRCY: Recycling Facilities

A listing of recycling center locations.

Date of Government Version: 11/24/2009 Date Data Arrived at EDR: 09/30/2010 Date Made Active in Reports: 10/28/2010

Number of Days to Update: 28

Source: Department of Natural Resources & Environment

Telephone: 517-241-5719 Last EDR Contact: 01/06/2012

Next Scheduled EDR Contact: 04/16/2012

Data Release Frequency: Varies

HIST LF: Inactive Solid Waste Facilities

The database contains historical information and is no longer updated.

Date of Government Version: 03/01/1997 Date Data Arrived at EDR: 02/28/2003 Date Made Active in Reports: 03/06/2003

Number of Days to Update: 6

Source: Department of Natural Resources & Environment

Telephone: 517-335-4034 Last EDR Contact: 02/28/2003 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 11/07/2011

Next Scheduled EDR Contact: 02/20/2012 Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 10/07/2011 Date Data Arrived at EDR: 12/09/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 32

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 12/05/2011

Next Scheduled EDR Contact: 03/19/2012 Data Release Frequency: Quarterly

DEL SHWS: Delisted List of Contaminated Sites

Sites that have been delisted or deleted from the List of Contaminated Sites. The available documentation for the site does not support it's listing or the site no longer meets criteria specified in rules.

Date of Government Version: 11/07/2011 Date Data Arrived at EDR: 11/07/2011 Date Made Active in Reports: 11/22/2011

Number of Days to Update: 15

Source: Department of Natural Resources & Environment

Telephone: 517-373-9541 Last EDR Contact: 01/30/2012

Next Scheduled EDR Contact: 05/14/2012 Data Release Frequency: Varies

CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab locations.

Date of Government Version: 10/20/2008 Date Data Arrived at EDR: 11/18/2008 Date Made Active in Reports: 11/21/2008

Number of Days to Update: 3

Source: Department of Community Health

Telephone: 517-373-3740 Last EDR Contact: 01/30/2012

Next Scheduled EDR Contact: 05/14/2012

Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007 Date Data Arrived at EDR: 11/19/2008 Date Made Active in Reports: 03/30/2009

Number of Days to Update: 131

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 03/23/2009

Next Scheduled EDR Contact: 06/22/2009 Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

UST 2: Underground Storage Tank Listing

A listing of underground storage tank site locations that have unknown owner information.

Date of Government Version: 10/24/2011 Date Data Arrived at EDR: 11/23/2011 Date Made Active in Reports: 01/09/2012

Number of Days to Update: 47

Source: Department of Environmental Quality

Telephone: 517-335-7211 Last EDR Contact: 01/23/2012

Next Scheduled EDR Contact: 05/07/2012 Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 09/09/2011 Date Data Arrived at EDR: 09/16/2011 Date Made Active in Reports: 09/29/2011

Number of Days to Update: 13

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 01/30/2012

Next Scheduled EDR Contact: 05/14/2012 Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005 Date Data Arrived at EDR: 12/11/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 31

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 11/22/2011

Next Scheduled EDR Contact: 03/05/2012 Data Release Frequency: Varies

LIENS: Lien List

An Environmental Lien is a charge, security, or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of hazardous substances or petroleum products upon a property, including (but not limited to) liens imposed pursuant to CERCLA 42 USC * 9607(1) and similar state or local laws. In other words: a lien placed upon a property's title due to an environmental condition

Date of Government Version: 06/13/2011 Date Data Arrived at EDR: 07/25/2011 Date Made Active in Reports: 07/29/2011

Number of Days to Update: 4

Source: Department of Natural Resources & Environment

Telephone: 517-373-9837 Last EDR Contact: 01/25/2012

Next Scheduled EDR Contact: 05/07/2012 Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 10/04/2011 Date Data Arrived at EDR: 10/04/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 38

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 01/03/2012

Next Scheduled EDR Contact: 04/16/2012 Data Release Frequency: Annually

PEAS: Pollution Emergency Alerting System

Environmental pollution emergencies reported to the Department of Environmental Quality such as tanker accidents, pipeline breaks, and release of reportable quantities of hazardous substances.

Date of Government Version: 11/30/2011 Date Data Arrived at EDR: 12/21/2011 Date Made Active in Reports: 01/23/2012

Number of Days to Update: 33

Source: Department of Natural Resources & Environment

Telephone: 517-373-8427 Last EDR Contact: 12/12/2011

Next Scheduled EDR Contact: 03/26/2012 Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/15/2011 Date Data Arrived at EDR: 07/07/2011 Date Made Active in Reports: 08/08/2011

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 01/05/2012

Next Scheduled EDR Contact: 04/16/2012 Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/29/2011 Date Data Arrived at EDR: 08/09/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 94

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 11/08/2011

Next Scheduled EDR Contact: 02/20/2012 Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS

Telephone: 888-275-8747 Last EDR Contact: 01/20/2012

Next Scheduled EDR Contact: 04/30/2012 Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 08/12/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 112

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 12/09/2011

Next Scheduled EDR Contact: 03/26/2012 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/01/2011 Date Data Arrived at EDR: 11/18/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 53

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 12/27/2011

Next Scheduled EDR Contact: 04/16/2012 Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/28/2011 Date Data Arrived at EDR: 12/14/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 27

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 12/14/2011

Next Scheduled EDR Contact: 03/26/2012 Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010 Date Data Arrived at EDR: 10/21/2010 Date Made Active in Reports: 01/28/2011

Number of Days to Update: 99

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 11/29/2011

Next Scheduled EDR Contact: 03/12/2012 Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011 Date Data Arrived at EDR: 09/08/2011 Date Made Active in Reports: 09/29/2011

Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 12/07/2011

Next Scheduled EDR Contact: 03/19/2012 Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 09/01/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 131

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 12/02/2011

Next Scheduled EDR Contact: 03/12/2012 Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 09/29/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 64

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 12/27/2011

Next Scheduled EDR Contact: 04/09/2012 Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 11/28/2011

Next Scheduled EDR Contact: 03/12/2012 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA

Telephone: 202-566-1667 Last EDR Contact: 11/28/2011

Next Scheduled EDR Contact: 03/12/2012 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011

Number of Days to Update: 77

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 01/30/2012

Next Scheduled EDR Contact: 05/14/2012 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011 Date Data Arrived at EDR: 11/10/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 61

Source: Environmental Protection Agency

Telephone: 202-564-5088 Last EDR Contact: 12/21/2011

Next Scheduled EDR Contact: 04/09/2012 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010 Date Data Arrived at EDR: 11/10/2010 Date Made Active in Reports: 02/16/2011

Number of Days to Update: 98

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 01/20/2012

Next Scheduled EDR Contact: 04/30/2012 Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011 Date Data Arrived at EDR: 07/15/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 60

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 12/12/2011

Next Scheduled EDR Contact: 03/26/2012 Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/11/2011 Date Data Arrived at EDR: 01/13/2011 Date Made Active in Reports: 02/16/2011

Number of Days to Update: 34

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 01/12/2012

Next Scheduled EDR Contact: 04/23/2012 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/02/2011 Date Data Arrived at EDR: 09/13/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 119

Source: EPA

Telephone: (312) 353-2000 Last EDR Contact: 12/13/2011

Next Scheduled EDR Contact: 03/26/2012 Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 03/01/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 62

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 11/30/2011

Next Scheduled EDR Contact: 03/12/2012 Data Release Frequency: Biennially

WDS: Waste Data System

The Waste Data System (WDS) tracks activities at facilities regulated by the Solid Waste, Scrap Tire, Hazardous Waste, and Liquid Industrial Waste programs.

Date of Government Version: 02/28/2011 Date Data Arrived at EDR: 03/01/2011 Date Made Active in Reports: 03/28/2011

Number of Days to Update: 27

Source: Department oF Natural Resources & Environment

Telephone: 517-373-9875 Last EDR Contact: 11/28/2011

Next Scheduled EDR Contact: 03/12/2012 Data Release Frequency: Quarterly

UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 11/01/2011 Date Data Arrived at EDR: 11/02/2011 Date Made Active in Reports: 11/22/2011

Number of Days to Update: 20

Source: Department of Natural Resources & Environment

Telephone: 517-241-1515 Last EDR Contact: 01/30/2012

Next Scheduled EDR Contact: 05/14/2012 Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Establishments
A listing of drycleaning facilities in Michigan.

Date of Government Version: 11/08/2011 Date Data Arrived at EDR: 11/10/2011 Date Made Active in Reports: 11/22/2011

Number of Days to Update: 12

Source: Department of Natural Resources & Environment

Telephone: 517-335-4586 Last EDR Contact: 01/23/2012

Next Scheduled EDR Contact: 05/07/2012 Data Release Frequency: Varies

NPDES: List of Active NPDES Permits

General information regarding NPDES (National Pollutant Discharge Elimination System) permits and NPDES Storm Water permits.

Date of Government Version: 10/11/2011 Date Data Arrived at EDR: 10/12/2011 Date Made Active in Reports: 11/16/2011

Number of Days to Update: 35

Source: Department of Natural Resources & Environment

Telephone: 517-241-1300 Last EDR Contact: 01/10/2012

Next Scheduled EDR Contact: 04/23/2012 Data Release Frequency: Varies

AIRS: Permit and Emissions Inventory Data Permit and emissions inventory data.

> Date of Government Version: 09/21/2011 Date Data Arrived at EDR: 10/27/2011 Date Made Active in Reports: 11/22/2011

Number of Days to Update: 26

Source: Department of Natural Resources & Environment

Telephone: 517-373-7074 Last EDR Contact: 12/20/2011

Next Scheduled EDR Contact: 04/09/2012 Data Release Frequency: Varies

BEA: BASELINE ENVIRONMENTAL ASSESSMENT DATABASE

A Baseline Environmental Assessment (BEA) allows people to purchase or begin operating at a facility without being held liable for existing contamination. BEAs are used to gather enough information about the property being transferred so that existing contamination can be distinguished from any new releases that might occur after the new owner or operator takes over the property.

Date of Government Version: 11/28/2011 Date Data Arrived at EDR: 11/29/2011 Date Made Active in Reports: 01/09/2012

Number of Days to Update: 41

Source: Department of Natural Resources & Environment

Telephone: 517-373-9541 Last EDR Contact: 11/21/2011

Next Scheduled EDR Contact: 03/05/2012 Data Release Frequency: Semi-Annually

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater

than 640 acres.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 34

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 01/20/2012

Next Scheduled EDR Contact: 04/30/2012 Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas,

Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011 Date Data Arrived at EDR: 03/09/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 01/23/2012

Next Scheduled EDR Contact: 05/07/2012 Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 01/20/2012

Next Scheduled EDR Contact: 04/30/2012

Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011 Date Data Arrived at EDR: 10/19/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 83

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 11/04/2011

Next Scheduled EDR Contact: 02/13/2012 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010 Date Data Arrived at EDR: 01/03/2011 Date Made Active in Reports: 03/21/2011

Number of Days to Update: 77

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 12/08/2011

Next Scheduled EDR Contact: 03/26/2012 Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 01/18/2012

Next Scheduled EDR Contact: 04/30/2012 Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites

Coal fired power plants in Southeast Michigan that have coal ash handling on site.

Date of Government Version: 04/21/2011 Date Data Arrived at EDR: 04/21/2011 Date Made Active in Reports: 05/13/2011

Number of Days to Update: 22

Source: Department of Natural Resources & Environment

Telephone: 586-753-3754 Last EDR Contact: 01/09/2012

Next Scheduled EDR Contact: 04/23/2012 Data Release Frequency: Varies

FINANCIAL ASSURANCE 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 10/21/2011 Date Data Arrived at EDR: 10/25/2011 Date Made Active in Reports: 11/16/2011

Number of Days to Update: 22

Source: Department of Natural Resources & Environment

Telephone: 517-335-6610 Last EDR Contact: 01/09/2012

Next Scheduled EDR Contact: 04/23/2012 Data Release Frequency: Varies

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 01/05/2011 Date Data Arrived at EDR: 01/07/2011 Date Made Active in Reports: 02/14/2011

Number of Days to Update: 38

Source: Department of Natural Resources & Environment

Telephone: 517-335-4034 Last EDR Contact: 12/27/2011

Next Scheduled EDR Contact: 04/16/2012

Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/21/2011 Date Data Arrived at EDR: 11/22/2011 Date Made Active in Reports: 12/22/2011

Number of Days to Update: 30

Source: Department of Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 11/22/2011

Next Scheduled EDR Contact: 03/05/2012 Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 07/20/2011

Date Made Active in Reports: 08/11/2011

Number of Days to Update: 22

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 01/20/2012

Next Scheduled EDR Contact: 04/30/2012 Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD

facility.

Date of Government Version: 11/01/2011 Date Data Arrived at EDR: 11/08/2011 Date Made Active in Reports: 12/22/2011

Number of Days to Update: 44

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 11/08/2011

Next Scheduled EDR Contact: 02/20/2012 Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008 Date Data Arrived at EDR: 12/01/2009 Date Made Active in Reports: 12/14/2009

Number of Days to Update: 13

Source: Department of Environmental Protection

Telephone: 717-783-8990 Last EDR Contact: 01/23/2012

Next Scheduled EDR Contact: 05/07/2012 Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2010 Date Data Arrived at EDR: 06/24/2011 Date Made Active in Reports: 06/30/2011

Number of Days to Update: 6

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 11/28/2011

Next Scheduled EDR Contact: 03/12/2012 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2010 Date Data Arrived at EDR: 08/19/2011 Date Made Active in Reports: 09/15/2011

Number of Days to Update: 27

Telephone: N/A

Last EDR Contact: 12/19/2011

Next Scheduled EDR Contact: 04/02/2012 Data Release Frequency: Annually

Source: Department of Natural Resources

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: Rextag Strategies Corp. Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Centers, Group & Family Homes

Source: Bureau of REgulatory Services

Telephone: 517-373-8300

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources

Telephone: 517-241-2254

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

603 WEST APPLE STREET 603 WEST APPLE STREET HASTINGS, MI 49058

TARGET PROPERTY COORDINATES

Latitude (North): 42.6498 - 42° 38' 59.28" Longitude (West): 85.2954 - 85° 17' 43.44"

Universal Tranverse Mercator: Zone 16 UTM X (Meters): 639731.2 UTM Y (Meters): 4723121.0

Elevation: 779 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 42085-F3 HASTINGS, MI

Most Recent Revision: 1982

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

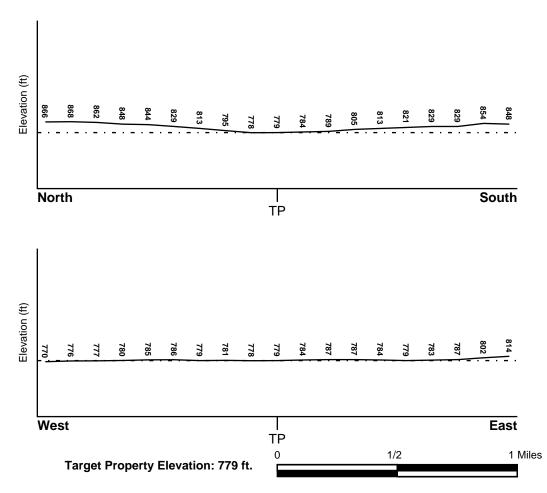
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

FEMA Flood Electronic Data

Target Property County BARRY, MI

YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:

26015C - FEMA DFIRM Flood data

Additional Panels in search area:

Not Reported

NATIONAL WETLAND INVENTORY

NWI Electronic

NWI Quad at Target Property

Data Coverage

HASTINGS

YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

 MAP ID
 FROM TP
 GROUNDWATER FLOW

 Not Reported
 GROUNDWATER FLOW

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

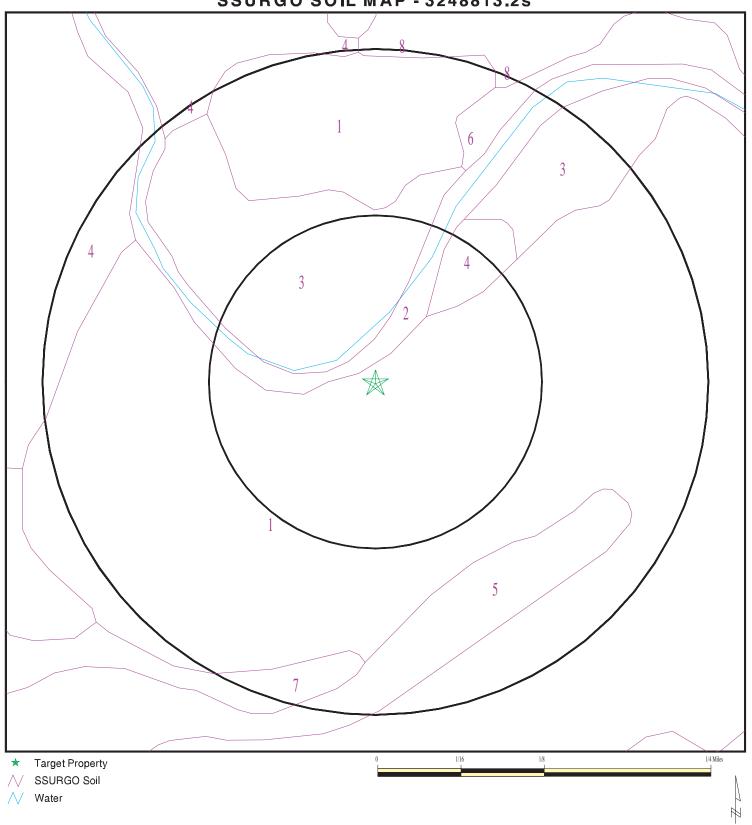
Era: Paleozoic Category: Stratified Sequence

System: Mississippian
Series: Meramecian Series

Code: M2 (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 3248813.2s



SITE NAME: 603 West Apple Street ADDRESS: 603 West Apple Street Hastings MI 49058 LAT/LONG: 42.6498 / 85.2954

CLIENT: Soil & Materials Engineers
CONTACT: Lauren Armeni
INQUIRY#: 3248813.2s
DATE: January 30, 2012 3:28 pm

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Boyer

Soil Surface Texture: loamy sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information | | | | | | | | |
|------------------------|----------|-----------|--------------------|---|--|-----------------------------|----------------------|--|
| | Воц | ındary | | Classi | fication | Saturated hydraulic | Ooii itoaotioii | |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | conductivity micro m/sec | | |
| 1 | 0 inches | 9 inches | loamy sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 141 | Max: 8.4 Min: 7.4 | |
| 2 | 9 inches | 18 inches | loamy sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 141 | Max: 8.4 Min: 7.4 | |

| | Soil Layer Information | | | | | | | | |
|-------|------------------------|-----------|------------------------|---|--|-----------------------------|----------------------|--|--|
| | Bou | ındary | | Classi | fication | Saturated hydraulic | | | |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | conductivity micro m/sec | | | |
| 3 | 18 inches | 33 inches | gravelly sandy loam | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 141 | Max: 8.4 Min: 7.4 | | |
| 4 | 33 inches | 59 inches | gravelly sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 141 | Max: 8.4 Min: 7.4 | | |

Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture: loamy sand

Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse Hydrologic Group:

textures.

Soil Drainage Class: Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Algansee

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

| | Soil Layer Information | | | | | | | | |
|-------|------------------------|-----------|--------------------|---|---|-----------------------------|----------------------|--|--|
| | Вои | ındary | | Classification | | Saturated hydraulic | | | |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | conductivity micro m/sec | Soil Reaction (pH) | | |
| 1 | 0 inches | 11 inches | loamy fine sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 42 | Max: 8.4 Min: 4.5 | | |
| 2 | 11 inches | 59 inches | fine sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 42 | Max: 8.4 Min: 4.5 | | |

Soil Map ID: 4

Soil Component Name: Sloan

Soil Surface Texture: loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be

drained and are classified.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

| | Soil Layer Information | | | | | | | | | |
|-------|------------------------|-----------|--|--|--|-----------------------------|----------------------|--|--|--|
| | Bou | ındary | | Classification | | Saturated hydraulic | | | | |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | conductivity micro m/sec | Soil Reaction (pH) | | | |
| 1 | 0 inches | 20 inches | loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 42 | Max: 8.4 Min: 6.6 | | | |
| 2 | 20 inches | 48 inches | stratified loam to silty clay loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 42 | Max: 8.4 Min: 6.6 | | | |
| 3 | 48 inches | 59 inches | sand | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 42 | Max: 8.4 Min: 6.6 | | | |

Soil Map ID: 5

Soil Component Name: Boyer

Soil Surface Texture: loamy sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| | Bou | ındary | | Classi | fication | Saturated hydraulic | |
|-------|-----------|-----------|------------------------|---|--|-----------------------------|----------------------|
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | conductivity micro m/sec | Soil Reaction (pH) |
| 1 | 0 inches | 9 inches | loamy sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 141 | Max: 8.4 Min: 7.4 |
| 2 | 9 inches | 18 inches | loamy sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 141 | Max: 8.4 Min: 7.4 |
| 3 | 18 inches | 33 inches | gravelly sandy loam | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 141 | Max: 8.4 Min: 7.4 |
| 4 | 33 inches | 59 inches | gravelly sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 141 | Max: 8.4 Min: 7.4 |

Soil Map ID: 6

Soil Component Name: Boyer

Soil Surface Texture: loamy sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| | Soil Layer Information | | | | | | | | |
|-------|------------------------|-----------|------------------------|---|--|---|----------------------|--|--|
| | Воц | ındary | | Classi | fication | Saturated hydraulic conductivity micro m/sec | | | |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | | | |
| 1 | 0 inches | 9 inches | loamy sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 141 | Max: 8.4 Min: 7.4 | | |
| 2 | 9 inches | 18 inches | loamy sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 141 | Max: 8.4 Min: 7.4 | | |
| 3 | 18 inches | 33 inches | gravelly sandy loam | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 141 | Max: 8.4 Min: 7.4 | | |

| | Soil Layer Information | | | | | | | |
|-------|------------------------|------------|--------------------|---|--|--|----------------------|--|
| | Boundary | | | Classi | Classification | | | |
| Layer | Upper | Lower Soil | Soil Texture Class | AASHTO Group | Unified Soil | hydraulic conductivity micro m/sec | | |
| 4 | 33 inches | 59 inches | gravelly sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 141 | Max: 8.4 Min: 7.4 | |

Soil Map ID: 7

Soil Component Name: Houghton

Soil Surface Texture: muck

Hydrologic Group: Class A/D - Drained/undrained hydrology class of soils that can be

drained and are classified.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information | | | | | | | | |
|------------------------|-----------|--------------------|----------------|--------------|-----------------------------|---------------------|-----------|--|
| Boundary | | | Classification | | Saturated hydraulic | | | |
| Layer Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | Soil Reaction (pH) | | |
| 1 | 0 inches | 14 inches | muck | A-8 | Highly organic soils, Peat. | Max: 42 Min: 1.4 | Max: Min: | |
| 2 | 14 inches | 59 inches | muck | A-8 | Highly organic soils, Peat. | Max: 42 Min: 1.4 | Max: Min: | |

Soil Map ID: 8

Soil Component Name: Boyer

Soil Surface Texture: loamy sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information Saturated **Boundary** Classification hydraulic conductivity Layer Upper Lower Soil Texture Class **AASHTO Group Unified Soil Soil Reaction** (pH) micro m/sec 1 0 inches 9 inches loamy sand Granular **COARSE-GRAINED** Max: 141 Max: 8.4 SOILS, Sands, materials (35 Min: 141 Min: 7.4 pct. or less Clean Sands, passing No. Poorly graded 200), Silty, or sand. Clayey Gravel COARSE-GRAINED and Sand. SOILS, Sands, Sands with fines, Silty Sand. 2 9 inches 18 inches Granular COARSE-GRAINED Max: 141 Max: 8.4 loamy sand materials (35 SOILS, Sands, Min: 141 Min: 7.4 pct. or less Clean Sands, passing No. Poorly graded 200), Silty, or sand. Clayey Gravel **COARSE-GRAINED** and Sand. SOILS, Sands, Sands with fines, Silty Sand. 3 18 inches COARSE-GRAINED Max: 8.4 33 inches gravelly sandy Granular Max: 141 loam materials (35 SOILS, Sands, Min: 141 Min: 7.4 pct. or less Clean Sands, passing No. Poorly graded 200), Silty, or sand. Clayey Gravel COARSE-GRAINED and Sand. SOILS, Sands, Sands with fines, Silty Sand.

| | Soil Layer Information | | | | | | | | |
|-------|------------------------|-----------|--------------------|---|--|--|----------------------|--|--|
| | Boundary | | | Classif | Classification | | | | |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | hydraulic conductivity micro m/sec | | | |
| 4 | 33 inches | 59 inches | gravelly sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 141 | Max: 8.4 Min: 7.4 | | |

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

LOCATION

MAP ID WELL ID FROM TP

A6 USGS2329328 1/4 - 1/2 Mile East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

LOCATION
WELL ID FROM TP

4 MI0820186 1/4 - 1/2 Mile SE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID

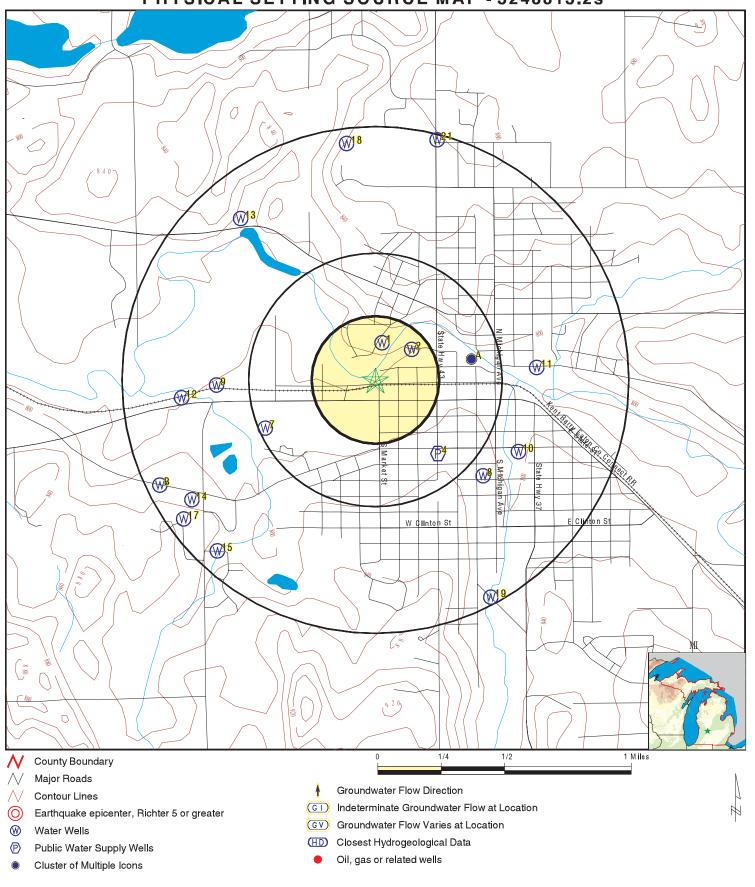
MAP ID WELL ID FROM TP

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

| MAP ID | WELL ID | LOCATION FROM TP |
|--------|------------|----------------------|
| 1 | MI20014193 | 1/8 - 1/4 Mile North |
| 2 | MI20014194 | 1/8 - 1/4 Mile NE |
| A3 | MI20014190 | 1/4 - 1/2 Mile ENE |
| A5 | MI20014189 | 1/4 - 1/2 Mile ENE |
| 7 | MI20016947 | 1/4 - 1/2 Mile WSW |
| 8 | MI20015734 | 1/2 - 1 Mile SE |
| 9 | MI20016076 | 1/2 - 1 Mile West |
| 10 | MI20014192 | 1/2 - 1 Mile ESE |
| 11 | MI20014191 | 1/2 - 1 Mile East |
| 12 | MI20016997 | 1/2 - 1 Mile West |
| 13 | MI20015963 | 1/2 - 1 Mile NW |
| 14 | MI20017537 | 1/2 - 1 Mile WSW |
| 15 | MI20016082 | 1/2 - 1 Mile SW |
| B16 | MI20014186 | 1/2 - 1 Mile WSW |
| 17 | MI20017182 | 1/2 - 1 Mile SW |
| 18 | MI20016189 | 1/2 - 1 Mile North |
| 19 | MI20017338 | 1/2 - 1 Mile SSE |
| B20 | MI20015827 | 1/2 - 1 Mile WSW |
| 21 | MI20016981 | 1/2 - 1 Mile NNE |
| | | |

PHYSICAL SETTING SOURCE MAP - 3248813.2s



SITE NAME: 603 West Apple Street ADDRESS: 603 West Apple Street Hastings MI 49058

LAT/LONG:

42.6498 / 85.2954

CLIENT: Soil & Materials CONTACT: Lauren Armeni Soil & Materials Engineers

INQUIRY#: 3248813.2s

January 30, 2012 3:28 pm DATE:

Map ID Direction Distance

Elevation Database EDR ID Number **MI WELLS** MI20014193 North 1/8 - 1/4 Mile Higher Wellid: 08000003109 Import id: 08030818301 Township: Hastings County: Barry 03N 08W Town range: Section: 18 CITY OF HASTINGS Owner name: Well addr: HASTINGS WELL #3 Well depth: 338 Type I public Well type: 3090 Wssn: Well num: HASTINGS WELL #3 Driller id: Const date: Not Reported Case type: Unknown Case dia: 18 Case depth: 119 Screen frm: 0 Screen to: 0 Swl: 2 Test depth: 0 0 Test hours: Test rate: 0 Test methd: Unknown Grouted: Pmp cpcity: 1500 Latitude: 42.651924 Longitude: -85.29488 Methd coll: GPS Code Meas. Std. Positioning Svc. SA Off Elevation: Elev methd: Topographoc Map Interpolation Depth flag: Not Reported Elev flag: Not Reported Not Reported Swl flag: Elev dem: 787 Elev dif: Elev miv: 789 Aq code: Unknown Lithology Aq flag: Not Reported Pct aq: 0 0 Pct aq d: 0 Pct aq r: Pct maq d: Pct maq: 0 0 Pct mag r: 0 Pct cm: 0 Pct cm d: 0 Pct cm r: 0 Pct pcm: 0 Pct pcm d: 0 0 Pct pcm r: 0 Pct na: 0 0 Pct na d: Pct na r: Not Reported Pct flag: Rock top: -3 D r type: Not Reported Spc cpcity: 0 A thicknes: A pct aq: 0 A pct maq: 0 0 A pct pcm: 0 0 A pct cm: A pct na: 0 A thickns2: 0 A pct aq2: A pct maq2: 0 A pct pcm2: 0 0 0 A pct cm2: A pct na2: F A hit swl: A hit top: Τ A hit rock: A sc lith1: Not Reported A sc Imod1: Not Reported A sc Imaq1: Not Reported A sc lpct1: A sc lith2: Not Reported Not Reported A sc Imod2: Not Reported A sc Imaq2: A sc lpct2: 0 Pct aq 1: 0 Pct mag 1: 0 Pct cm 1: 0 Pct pcm 1: 0 Pct na 1: 100

Pct aq 2: 0 Pct cm 2: 0 Pct na 2: 100 Pct maq 3: 0 0 Pct pcm 3: Pct aq 4: 0 Pct cm 4: 0 Pct na 4: 100 Pct maq 5: 0 Pct pcm 5: 0 0 Pct aq 6: Pct cm 6: 0 Pct na 6: 100 Pct maq 7: 0 Pct pcm 7: 0 Pct aq 8: 0 Pct cm 8: 0 Pct na 8: 100 0 Pct maq 9: Pct pcm 9: 0 Pct aq 10: 0 Pct cm 10: 0 Pct na 10: 100 Pct maq 11: 0 Pct pcm 11: 0 Pct aq 12: 0 Pct cm 12: 0 Pct na 12: 0 Pct maq 13: 0 0 Pct pcm 13: Within sec: Υ Aq code 1: Not Reported Pct maq 2: Pct pcm 2: Pct aq 3: Pct cm 3: Pct na 3: Pct maq 4: Pct pcm 4: Pct aq 5: Pct cm 5: Pct na 5: Pct maq 6: Pct pcm 6: Pct aq 7: Pct cm 7: Pct na 7: Pct maq 8: Pct pcm 8: Pct aq 9: Pct cm 9: Pct na 9: Pct mag 10: Pct pcm 10: Pct aq 11: Pct cm 11: Pct na 11: Pct mag 12: Pct pcm 12: Pct aq 13: Pct cm 13: Pct na 13: Loc match:

Import id:

Township:

Section:

Driller id:

0

0

0

0

0

0

100

NE 1/8 - 1/4 Mile Higher

Hit swl:

Horiz Conduct:

Vert Conduct:

Athk2:

T2:

D50plek:

 Wellid:
 08000003110

 County:
 Barry

 Town range:
 03N 08W

Owner name: CITY OF HASTINGS Well addr: HASTINGS WELL #4

Not Reported

0

0

0

0

0

Well depth: 350

Well type: Type I public

Wssn: 3090

Well num: HASTINGS WELL #4

Const date: Not Reported Case type:

Case dia: 16

MI WELLS MI20014194

08030818302

Hastings

Unknown

18

TC3248813.2s Page A-18

Case depth: 60 Screen frm: 0 Screen to: 0 Swl: 31 Test depth: 0 Test hours: 0 Test rate: 0 Test methd: Unknown Grouted: Pmp cpcity: 1400 42.651544 Latitude: -85.292584 Longitude: Methd coll: GPS Code Meas. Std. Positioning Svc. SA Off Elevation: Elev methd: Topographoc Map Interpolation Depth flag: Not Reported Elev flag: Not Reported Swl flag: Not Reported Elev dem: 777 Elev dif: Elev miv: 779 Aq code: Unknown Lithology Not Reported Aq flag: Pct aq: Pct aq d: 0 Pct aq r: 0 Pct mag: 0 Pct mag d: 0 Pct mag r: 0 Pct cm: 0 Pct cm d: 0 Pct cm r: 0 0 Pct pcm: 0 Pct pcm d: 0 0 Pct pcm r: Pct na: 0 Pct na d: 0 Pct na r: Pct flag: Not Reported Rock top: -3 0 D r type: Not Reported Spc cpcity: A thicknes: 0 A pct aq: A pct maq: 0 A pct pcm: 0 0 0 A pct cm: A pct na: A thickns2: 0 0 A pct ag2: 0 A pct maq2: 0 A pct pcm2: 0 0 A pct cm2: A pct na2: A hit swl: F A hit top: Т A hit rock: A sc lith1: Not Reported A sc Imod1: Not Reported A sc Imaq1: Not Reported Not Reported A sc lpct1: A sc lith2: A sc Imod2: Not Reported A sc Imaq2: Not Reported A sc lpct2: 0 Pct aq 1: 0 Pct mag 1: 0 Pct cm 1: 0 Pct pcm 1: 0 Pct na 1: 100 0 Pct aq 2: Pct maq 2: 0 0 Pct cm 2: 0 Pct pcm 2: 0 Pct na 2: 100 Pct aq 3: Pct maq 3: 0 Pct cm 3: 0 Pct pcm 3: 0 Pct na 3: 100 Pct aq 4: 0 Pct maq 4: 0 Pct cm 4: 0 Pct pcm 4: 0 0 Pct na 4: 100 Pct aq 5: Pct maq 5: 0 Pct cm 5: 0 0 100 Pct pcm 5: Pct na 5: 0 Pct aq 6: Pct maq 6: 0 0 Pct cm 6: 0 Pct pcm 6: 100 0 Pct na 6: Pct aq 7: Pct maq 7: 0 Pct cm 7: 0 Pct pcm 7: 0 Pct na 7: 100 0 Pct maq 8: Pct aq 8: 0 Pct cm 8: 0 Pct pcm 8: 0 Pct na 8: 100 Pct aq 9: 0 Pct maq 9: 0 Pct cm 9: 0 0 Pct na 9: Pct pcm 9: 100

Pct aq 10: 0 Pct maq 10: 0 Pct cm 10: 0 Pct pcm 10: 0 0 Pct na 10: 100 Pct aq 11: 0 Pct maq 11: 0 Pct cm 11: Pct na 11: Pct pcm 11: 0 100 Pct aq 12: 0 Pct maq 12: 0 Pct pcm 12: Pct cm 12: 0 0 Pct na 12: 0 Pct aq 13: 0 Pct maq 13: 0 Pct cm 13: 0 Pct pcm 13: 0 Pct na 13: 0 Υ Within sec: Υ Loc match:

Aq code 1: Not Reported Hit swl: Not Reported Athk2: 0

 Athk2:
 0

 Horiz Conduct:
 0

 Vert Conduct:
 0

 T2:
 0

 D50plek:
 0

A3
ENE MI WELLS MI20014190
1/4 - 1/2 Mile

 Wellid:
 0800003076
 Import id:
 08030817302

 County:
 Barry
 Township:
 Hastings

 Town range:
 03N 08W
 Section:
 17

Owner name: CITY OF HASTINGS
Well addr: HASTINGS WELL #2

Well depth: 67

Higher

Well type: Type I public Wssn: 3090

Well num: HASTINGS WELL #2 Driller id: 0
Const date: Not Reported Case type: Other

 Case dia:
 12

 Case depth:
 43

 Screen frm:
 0

 Screen to:
 0

 Swl:
 12

 Test depth:
 0

 Test hours:
 0

Test rate: 0 Test methd: Unknown Grouted: 0 Pmp cpcity: 700

Latitude: 42.65127 Longitude: -85.288421

Methd coll: GPS Code Meas. Std. Positioning Svc. SA Off

Elevation: 780

Elev methd: Topographoc Map Interpolation Depth flag: Not Reported

Elev flag: Not Reported Swl flag: Not Reported

Elev dem: 777 Elev dif: 3

Elev miv: 780 Aq code: Unknown Lithology

Aq flag: Not Reported Pct aq: 0 Pct aq d: 0 Pct aq r: 0 Pct maq: 0 Pct maq d: 0 0 0 Pct maq r: Pct cm:

| Pct cm d: | 0 | Pct cm r: | 0 |
|----------------|-------------------|-------------|--------------|
| Pct pcm: | 0 | Pct pcm d: | 0 |
| Pct pcm r: | 0 | Pct na: | 0 |
| Pct na d: | 0 | Pct na r: | 0 |
| Pct flag: | Not Reported | Rock top: | -3 |
| D r type: | Not Reported | Spc cpcity: | 0 |
| A thicknes: | 0 | A pct aq: | 0 |
| A pct maq: | 0 | A pct pcm: | 0 |
| A pct cm: | 0 | A pct na: | 0 |
| A thickns2: | 0 | A pct aq2: | 0 |
| A pct maq2: | 0 | A pct pcm2: | 0 |
| A pct cm2: | 0 | A pct na2: | 0 |
| A hit swl: | F | A hit top: | F |
| A hit rock: | F | A sc lith1: | Not Reported |
| | • | | |
| A sc Imod1: | Not Reported | A sc Imaq1: | Not Reported |
| A sc lpct1: | 0 Not Becauted | A sc lith2: | Not Reported |
| A sc Imod2: | Not Reported | A sc Imaq2: | Not Reported |
| A sc lpct2: | 0 | Pct aq 1: | 0 |
| Pct maq 1: | 0 | Pct cm 1: | 0 |
| Pct pcm 1: | 0 | Pct na 1: | 100 |
| Pct aq 2: | 0 | Pct maq 2: | 0 |
| Pct cm 2: | 0 | Pct pcm 2: | 0 |
| Pct na 2: | 100 | Pct aq 3: | 0 |
| Pct maq 3: | 0 | Pct cm 3: | 0 |
| Pct pcm 3: | 0 | Pct na 3: | 100 |
| Pct aq 4: | 0 | Pct maq 4: | 0 |
| Pct cm 4: | 0 | Pct pcm 4: | 0 |
| Pct na 4: | 0 | Pct aq 5: | 0 |
| Pct maq 5: | 0 | Pct cm 5: | 0 |
| Pct pcm 5: | 0 | Pct na 5: | 0 |
| Pct aq 6: | 0 | Pct maq 6: | 0 |
| Pct cm 6: | 0 | Pct pcm 6: | 0 |
| Pct na 6: | 0 | Pct aq 7: | 0 |
| Pct maq 7: | 0 | Pct cm 7: | 0 |
| Pct pcm 7: | 0 | Pct na 7: | 0 |
| Pct aq 8: | 0 | Pct maq 8: | 0 |
| Pct cm 8: | 0 | | 0 |
| | 0 | Pct pcm 8: | 0 |
| Pct na 8: | | Pct aq 9: | |
| Pct maq 9: | 0 | Pct cm 9: | 0 |
| Pct pcm 9: | 0 | Pct na 9: | 0 |
| Pct aq 10: | 0 | Pct maq 10: | 0 |
| Pct cm 10: | 0 | Pct pcm 10: | 0 |
| Pct na 10: | 0 | Pct aq 11: | 0 |
| Pct maq 11: | 0 | Pct cm 11: | 0 |
| Pct pcm 11: | 0 | Pct na 11: | 0 |
| Pct aq 12: | 0 | Pct maq 12: | 0 |
| Pct cm 12: | 0 | Pct pcm 12: | 0 |
| Pct na 12: | 0 | Pct aq 13: | 0 |
| Pct maq 13: | 0 | Pct cm 13: | 0 |
| Pct pcm 13: | 0 | Pct na 13: | 0 |
| Within sec: | Υ | Loc match: | Υ |
| Aq code 1: | Not Reported | | |
| Hit swl: | Not Reported | | |
| Athk2: | 0 | | |
| Horiz Conduct: | 0 | | |
| Vert Conduct: | 0 | | |
| T2: | 0 | | |
| D50plek: | 0 | | |
| • | | | |

Map ID Direction Distance

Elevation Database EDR ID Number

SE FRDS PWS MI0820186

1/4 - 1/2 Mile Higher

PWS ID: MI0820186

Date Initiated: Not Reported Date Deactivated: Not Reported

PWS Name: DR CLARK VET OFFICE 2265 GUN LAKE RD

HASTINGS, MI 49058

Addressee / Facility: Not Reported

Facility Latitude: 42 38 44 Facility Longitude: 085 17 26 City Served: Not Reported

Treatment Class: Untreated Population: 00000025

Violations information not reported.

ENE MI WELLS MI20014189
1/4 - 1/2 Mile

Higher

 Wellid:
 0800003075
 Import id:
 08030817301

 County:
 Barry
 Township:
 Hastings

 Town range:
 03N 08W
 Section:
 17

Owner name: CITY OF HASTINGS Well addr: HASTINGS WELL #1

Well depth: 339

Well type: Type I public

Wssn: 3090

Well num: HASTINGS WELL #1 Driller id: 0
Const date: Not Reported Case type: Other

 Case dia:
 18

 Case depth:
 177

 Screen frm:
 0

 Screen to:
 0

 Swl:
 12

 Test depth:
 0

 Test hours:
 0

Test rate: 0 Test methd: Unknown Grouted: 1 Pmp cpcity: 1500

Latitude: 42.651125 Longitude: -85.287938

Methd coll: GPS Code Meas. Std. Positioning Svc. SA Off

Elevation: 781

Elev methd: Topographoc Map Interpolation Depth flag: Not Reported

Elev flag: Not Reported Swl flag: Not Reported

Elev dem: 777 Elev dif: 4

Elev miv: 781 Aq code: Unknown Lithology

Aq flag: Not Reported Pct aq: 0 0 Pct aq d: 0 Pct aq r: Pct maq d: 0 Pct maq: 0 Pct maq r: 0 Pct cm: 0

| - | | - . | |
|------------------|--------------|-------------|--------------|
| Pct cm d: | 0 | Pct cm r: | 0 |
| Pct pcm: | 0 | Pct pcm d: | 0 |
| Pct pcm r: | 0 | Pct na: | 0 |
| Pct na d: | 0 | Pct na r: | 0 |
| Pct flag: | Not Reported | Rock top: | -3 |
| D r type: | Not Reported | Spc cpcity: | 0 |
| A thicknes: | 0 | A pct aq: | 0 |
| A pct maq: | 0 | A pct pcm: | 0 |
| A pct cm: | 0 | A pct na: | 0 |
| A thickns2: | 0 | A pct aq2: | 0 |
| A pct maq2: | 0 | A pct pcm2: | 0 |
| A pct cm2: | 0 | A pct na2: | 0 |
| A hit swl: | F | A hit top: | F |
| A hit rock: | F | A sc lith1: | Not Reported |
| A sc Imod1: | Not Reported | A sc Imaq1: | Not Reported |
| A sc lpct1: | 0 | A sc lith2: | Not Reported |
| A sc Imod2: | Not Reported | | |
| | • | A sc Imaq2: | Not Reported |
| A sc lpct2: | 0 | Pct aq 1: | 0 |
| Pct maq 1: | 0 | Pct cm 1: | 0 |
| Pct pcm 1: | 0 | Pct na 1: | 100 |
| Pct aq 2: | 0 | Pct maq 2: | 0 |
| Pct cm 2: | 0 | Pct pcm 2: | 0 |
| Pct na 2: | 100 | Pct aq 3: | 0 |
| Pct maq 3: | 0 | Pct cm 3: | 0 |
| Pct pcm 3: | 0 | Pct na 3: | 100 |
| Pct aq 4: | 0 | Pct maq 4: | 0 |
| Pct cm 4: | 0 | Pct pcm 4: | 0 |
| Pct na 4: | 100 | Pct aq 5: | 0 |
| Pct maq 5: | 0 | Pct cm 5: | 0 |
| Pct pcm 5: | 0 | Pct na 5: | 100 |
| Pct aq 6: | 0 | Pct maq 6: | 0 |
| Pct cm 6: | 0 | Pct pcm 6: | 0 |
| Pct na 6: | 100 | Pct aq 7: | 0 |
| Pct maq 7: | 0 | Pct cm 7: | 0 |
| Pct pcm 7: | 0 | Pct na 7: | 100 |
| Pct aq 8: | 0 | Pct maq 8: | 0 |
| Pct cm 8: | 0 | Pct pcm 8: | 0 |
| Pct na 8: | 100 | Pct aq 9: | 0 |
| Pct maq 9: | 0 | Pct cm 9: | 0 |
| Pct pcm 9: | 0 | Pct na 9: | 100 |
| Pct aq 10: | 0 | Pct maq 10: | 0 |
| Pct cm 10: | 0 | Pct pcm 10: | 0 |
| Pct na 10: | 100 | Pct aq 11: | 0 |
| Pct mag 11: | 0 | Pct cm 11: | 0 |
| Pct pcm 11: | 0 | Pct na 11: | 0 |
| Pct aq 12: | 0 | Pct maq 12: | 0 |
| Pct cm 12: | 0 | Pct pcm 12: | 0 |
| Pct na 12: | 0 | Pct aq 13: | 0 |
| Pct mag 13: | 0 | Pct cm 13: | 0 |
| Pct pcm 13: | 0 | Pct na 13: | 0 |
| Within sec: | Y | Loc match: | Y |
| Ag code 1: | Not Reported | | • |
| Hit swl: | Not Reported | | |
| Athk2: | 0 | | |
| Horiz Conduct: | 0 | | |
| Vert Conduct: | 0 | | |
| T2: | 0 | | |
| · - · | ~ | | |

D50plek:

0

Map ID Direction Distance

Elevation Database EDR ID Number

A6
East FED USGS USGS2329328
1/4 - 1/2 Mile

Higher

Agency cd: USGS Site no: 423905085170001

Site name: 15 HASTINGS 1

Latitude: 423902 EDR Site id: USGS2329328 Longitude: 0851715 Dec lat: 42.65059052 Dec Ion: -85.28750711 Coor meth: Coor accr: Μ Latlong datum: NAD27 Dec latlong datum: NAD83 District: 26 015 26 County: State:

Country: US Land net: Not Reported Location map: Not Reported Map scale: Not Reported

Altitude: Not Reported
Altitude method: Not Reported
Altitude accuracy: Not Reported
Altitude datum: Not Reported
Hydrologic: Not Reported
Topographic: Not Reported

Site type: Ground-water other than Spring Date construction: Not Reported

Date inventoried: 19860715 Mean greenwich time offset: EST

Local standard time flag: Y

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported Aquifer: Not Reported

Well depth: Not Reported Hole depth: Not Reported

Source of depth data: Not Reported Project number: 440013100

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date:0000-00-00Peak flow data end date:0000-00-00Peak flow data count:0Water quality data begin date:1986-07-15

Water quality data end date:1986-07-15 Water quality data count: 1

Ground water data begin date: 0000-00-00 Ground water data end date: 0000-00-00

Ground water data count: 0

Ground-water levels, Number of Measurements: 0

7 WSW MI WELLS MI20016947 1/4 - 1/2 Mile

Higher

Wellid:0800006873Import id:Not ReportedCounty:BarryTownship:HastingsTown range:03N 08WSection:18

Owner name: AL & VALERIE EAVERY

Well addr: Not Reported Well depth: 240 Well type: Test well

Wssn: 0

 Well num:
 Not Reported
 Driller id:
 2167

 Const date:
 2002-06-11 00:00:00.000
 Case type:
 PVC Plastic

Case dia: 5

Case depth: 190 Screen frm: 0 Screen to: 0 Swl: 14 0 Test depth: Test hours: 0 Test rate: 40 Test methd: Air Grouted: Pmp cpcity: 42.64704202 Latitude: -85.30391936 Longitude: Methd coll: Interpolation-Map Elevation: Elev methd: DEM30M Depth flag: Not Reported Elev flag: Elevation < DEMmin or Elevation > DEMmax Swl flag: Not Reported 787 787 Elev dem: Elev dif: Rock Well Elev miv: 787 Aq code: Not Reported Aq flag: Pct aq: 80 Pct aq d: 91 Pct aq r: 61 Pct mag: 5 Pct mag d: 0 Pct mag r: 13 Pct cm: 15 Pct cm d: 8 Pct cm r: 26 Pct pcm: 0 Pct pcm d: 0 0 0 Pct pcm r: Pct na: 0 Pct na d: Pct na r: 1 Pct flag: Not Reported Rock top: 155 D r type: Not Reported Spc cpcity: 0 A thicknes: 0 0 A pct aq: A pct maq: 0 A pct pcm: 0 0 0 A pct cm: A pct na: A thickns2: 0 A pct ag2: 0 0 A pct maq2: 0 A pct pcm2: 0 0 A pct cm2: A pct na2: A hit swl: F A hit top: Т A hit rock: A sc lith1: Not Reported A sc Imod1: Not Reported A sc Imaq1: Not Reported Not Reported A sc lpct1: A sc lith2: Not Reported Not Reported A sc Imod2: A sc Imaq2: A sc lpct2: 0 Pct aq 1: 60 Pct mag 1: 0 Pct cm 1: 35 Pct pcm 1: 0 Pct na 1: 5 0 Pct aq 2: 100 Pct maq 2: Pct cm 2: 0 0 Pct pcm 2: Pct na 2: 0 Pct aq 3: 100 Pct maq 3: 0 Pct cm 3: 0 Pct pcm 3: 0 Pct na 3: 0 Pct aq 4: 70 Pct maq 4: 0 Pct cm 4: 30 Pct pcm 4: 0 Pct na 4: 0 Pct aq 5: 100 Pct maq 5: 0 Pct cm 5: 0 0 0 Pct pcm 5: Pct na 5: 0 100 Pct aq 6: Pct maq 6: 0 Pct cm 6: 0 Pct pcm 6: Pct na 6: 0 Pct aq 7: 100 Pct maq 7: 0 Pct cm 7: 0 Pct pcm 7: 0 Pct na 7: 0 Pct aq 8: 0 Pct maq 8: 0 Pct cm 8: 0 Pct pcm 8: 0 Pct na 8: 0 Pct aq 9: 0 0 Pct maq 9: 0 Pct cm 9: 0 0 Pct na 9: Pct pcm 9:

| Pct aq 10: | 0 | Pct maq 10: | 0 |
|-------------|---|-------------|---|
| Pct cm 10: | 0 | Pct pcm 10: | 0 |
| Pct na 10: | 0 | Pct aq 11: | 0 |
| Pct maq 11: | 0 | Pct cm 11: | 0 |
| Pct pcm 11: | 0 | Pct na 11: | 0 |
| Pct aq 12: | 0 | Pct maq 12: | 0 |
| Pct cm 12: | 0 | Pct pcm 12: | 0 |
| Pct na 12: | 0 | Pct aq 13: | 0 |
| Pct maq 13: | 0 | Pct cm 13: | 0 |
| Pct pcm 13: | 0 | Pct na 13: | 0 |
| Within sec: | Υ | Loc match: | Υ |
| Aq code 1: | R | | |
| Hit swl: | F | | |
| Athk2: | 0 | | |

 Horiz Conduct:
 95.55556

 Vert Conduct:
 .00225

 T2:
 12900.0006

 D50plek:
 2666.52793

8 SE MI WELLS MI20015734 1/2 - 1 Mile

Wellid:0800005271Import id:Not ReportedCounty:BarryTownship:RutlandTown range:03N 09WSection:5

Owner name: Bravata Construction Well addr: 1444 Grand Ct.

Well addr: 1444 Grand Ct.
Well depth: 237

Well type: Household Wssn: 0

Higher

Well num: Not Reported Driller id: 1772

 Case dia:
 5

 Case depth:
 186

 Screen frm:
 0

 Screen to:
 0

 Swl:
 35

 Test depth:
 198

 Test hours:
 1

Test rate: 100 Test methd: Air Grouted: 1 Pmp cpcity: 18

Latitude: 42.64431912 Longitude: -85.28705278

Methd coll: Address Matching-House Number

Elevation: 0

Elev methd: DEM30M Depth flag: Not Reported

Elev flag: Elevation < DEMmin or Elevation > DEMmax

Swl flag: Not Reported

Elev dem: 810 Elev dif: 810

Elev miv: 810 Aq code: Not Reported

 Aq flag:
 Lithology Problem (Drift under Rock)t aq:
 0

 Pct aq d:
 0
 Pct aq r:
 0

 Pct maq:
 0
 Pct maq d:
 0

 Pct maq r:
 0
 Pct cm:
 0

| B | | Б., | • |
|----------------|--------------|-------------|--------------|
| Pct cm d: | 0 | Pct cm r: | 0 |
| Pct pcm: | 0 | Pct pcm d: | 0 |
| Pct pcm r: | 0 | Pct na: | 0 |
| Pct na d: | 0 | Pct na r: | 0 |
| Pct flag: | Not Reported | Rock top: | -9 |
| D r type: | Not Reported | Spc cpcity: | 0 |
| A thicknes: | 0 | A pct aq: | 0 |
| A pct maq: | 0 | A pct pcm: | 0 |
| A pct cm: | 0 | A pct na: | 0 |
| A thickns2: | 0 | A pct aq2: | 0 |
| A pct maq2: | 0 | A pct pcm2: | 0 |
| A pct cm2: | 0 | A pct na2: | 0 |
| A hit swl: | F | A hit top: | F |
| A hit rock: | F | A sc lith1: | Not Reported |
| A sc Imod1: | Not Reported | A sc lmaq1: | Not Reported |
| A sc lpct1: | 0 | A sc lith2: | Not Reported |
| A sc Imod2: | Not Reported | A sc Imaq2: | Not Reported |
| A sc lpct2: | 0 | Pct aq 1: | 100 |
| Pct maq 1: | 0 | Pct cm 1: | 0 |
| Pct pcm 1: | 0 | Pct na 1: | 0 |
| Pct aq 2: | 100 | Pct maq 2: | 0 |
| Pct cm 2: | 0 | Pct pcm 2: | 0 |
| Pct na 2: | 0 | Pct aq 3: | 100 |
| Pct maq 3: | 0 | Pct cm 3: | 0 |
| Pct pcm 3: | 0 | Pct na 3: | 0 |
| Pct aq 4: | 5 | Pct maq 4: | 95 |
| Pct cm 4: | 0 | Pct pcm 4: | 0 |
| Pct na 4: | 0 | Pct aq 5: | 0 |
| Pct maq 5: | 50 | Pct cm 5: | 50 |
| Pct pcm 5: | 0 | Pct na 5: | 0 |
| Pct aq 6: | 0 | Pct maq 6: | 0 |
| Pct cm 6: | 100 | Pct pcm 6: | 0 |
| Pct na 6: | 0 | Pct aq 7: | 0 |
| Pct maq 7: | 0 | Pct cm 7: | 100 |
| Pct pcm 7: | 0 | Pct na 7: | 0 |
| Pct aq 8: | 0 | Pct maq 8: | 0 |
| Pct cm 8: | 100 | Pct pcm 8: | 0 |
| Pct na 8: | 0 | Pct aq 9: | 0 |
| Pct maq 9: | 0 | Pct cm 9: | 0 |
| Pct pcm 9: | 0 | Pct na 9: | 0 |
| Pct aq 10: | 0 | Pct maq 10: | 0 |
| Pct cm 10: | 0 | Pct pcm 10: | 0 |
| Pct na 10: | 0 | Pct aq 11: | 0 |
| Pct maq 11: | 0 | Pct cm 11: | 0 |
| Pct pcm 11: | 0 | Pct na 11: | 0 |
| Pct aq 12: | 0 | Pct mag 12: | 0 |
| Pct cm 12: | 0 | Pct pcm 12: | 0 |
| Pct na 12: | 0 | Pct aq 13: | 0 |
| Pct mag 13: | 0 | Pct cm 13: | 0 |
| Pct pcm 13: | 0 | Pct na 13: | 0 |
| Within sec: | N | Loc match: | Ϋ́ |
| Aq code 1: | Not Reported | | • |
| Hit swl: | Not Reported | | |
| Athk2: | 0 | | |
| Horiz Conduct: | 0 | | |
| Vert Conduct: | 0 | | |
| T2: | 0 | | |
| D50plek: | 0 | | |
| 200pion. | Č | | |

Map ID Direction Distance

Elevation Database EDR ID Number West **MI WELLS** MI20016076 1/2 - 1 Mile Higher Wellid: 08000005746 Import id: Not Reported Township: Hastings County: Barry 03N 08W Town range: Section: 18 OSCOR DEGOA Owner name: Well addr: 1311 WEST STATE STREET Well depth: 118 Well type: Household 0 Wssn: Well num: Driller id: 1593 Not Reported 2000-11-07 00:00:00.000 Const date: Case type: **PVC Plastic** 5 Case dia: Case depth: 113 Screen frm: 113 Screen to: 118 Swl: 22 Test depth: 30 Test hours: 1 Test rate: 30 Test methd: Air Grouted: Pmp cpcity: 42.64950715 Latitude: Longitude: -85.30769823 Methd coll: Interpolation-Map Elevation: Elev methd: DEM30M Depth flag: Not Reported Elev flag: Elevation < DEMmin or Elevation > DEMmax Not Reported Swl flag: Elev dem: 781 781 Elev dif: Elev miv: 781 Aq code: Drift Well Aq flag: Not Reported Pct aq: 50 0 Pct aq d: 50 Pct aq r: Pct maq: Pct maq d: 0 0 Pct mag r: 0 Pct cm: 42 Pct cm d: 42 Pct cm r: 0 Pct pcm: 8 Pct pcm d: 8 0 Pct pcm r: 0 Pct na: 0 0 Pct na d: Pct na r: Not Reported Pct flag: Rock top: -1 D r type: Not Reported Spc cpcity: 0 A thicknes: 13 A pct aq: 100 A pct maq: 0 0 A pct pcm: 0 0 A pct cm: A pct na: A thickns2: 96 A pct aq2: 42 A pct maq2: 0 A pct pcm2: 9 0 49 A pct cm2: A pct na2: F F A hit swl: A hit top: A hit rock: A sc lith1: Gravel A sc Imod1: Water Bearing A sc Imaq1: AQ A sc lpct1: 100 A sc lith2: Not Reported A sc Imod2: Not Reported A sc Imaq2: Not Reported A sc lpct2: 0 Pct aq 1: 90 Pct mag 1: 0 Pct cm 1: 10 Pct pcm 1: 0 Pct na 1:

| Pct aq 2: | 35 |
|----------------|------------------------|
| Pct cm 2: | 20 |
| Pct na 2: | 0 |
| Pct maq 3: | 0 |
| Pct pcm 3: | 0 |
| Pct aq 4: | 0 |
| Pct cm 4: | 100 |
| Pct na 4: | 0 |
| Pct maq 5: | 0 |
| Pct pcm 5: | 0 |
| Pct aq 6: | 0 |
| Pct cm 6: | 0 |
| Pct na 6: | 0 |
| Pct maq 7: | 0 |
| Pct pcm 7: | 0 |
| Pct aq 8: | 0 |
| Pct cm 8: | 0 |
| Pct na 8: | 0 |
| Pct maq 9: | 0 |
| Pct pcm 9: | 0 |
| Pct aq 10: | 0 |
| Pct cm 10: | 0 |
| Pct na 10: | 0 |
| Pct maq 11: | 0 |
| Pct pcm 11: | 0 |
| Pct aq 12: | 0 |
| Pct cm 12: | 0 |
| Pct na 12: | 0 |
| Pct maq 13: | 0 |
| Pct pcm 13: | 0 |
| Within sec: | Y |
| Aq code 1: | D F |
| Hit swl: | • |
| Athk2: | 96 |
| Horiz Conduct: | 61.98015 |
| Vert Conduct: | .0002 |
| T2: | 5950.0947 907.56172 |
| D50plek: | 907.30172 |
| | |

Pct maq 2: 0 Pct pcm 2: 45 Pct aq 3: 75 Pct cm 3: 25 Pct na 3: 0 Pct maq 4: 0 Pct pcm 4: 0 Pct aq 5: 30 Pct cm 5: 70 Pct na 5: 0 Pct maq 6: 0 Pct pcm 6: 0 Pct aq 7: 0 0 Pct cm 7: Pct na 7: 0 Pct maq 8: 0 0 Pct pcm 8: Pct aq 9: 0 Pct cm 9: 0 Pct na 9: 0 Pct maq 10: 0 0 Pct pcm 10: Pct aq 11: 0 0 Pct cm 11: Pct na 11: 0 Pct maq 12: 0 Pct pcm 12: 0 0 Pct aq 13: 0 Pct cm 13: Pct na 13: 0 Loc match: Υ

10 ESE MI WELLS MI20014192 1/2 - 1 Mile

Driller id:

Case type:

Wellid: 08000003090 County: Barry 03N 08W Town range: Owner name: PRP PW-1 Well addr: Well depth: 28 Well type: Other Wssn: 0

Well num: Not Reported

Const date: 1992-10-26 00:00:00.000

Case dia: 6

Higher

Import id: 08030817513
Township: Hastings
Section: 17

TC3248813.2s Page A-29

PVC Plastic

Case depth: 18 Screen frm: 18 Screen to: 28 17 Swl: 0 Test depth: Test hours: 0 Test rate: 0 Test methd: Unknown Grouted: Pmp cpcity: 42.645702078 Latitude: -85.284310593 Longitude: Methd coll: Interpolation-Map Elevation: Elev methd: Topographoc Map Interpolation Depth flag: Not Reported Elev flag: Not Reported Swl flag: Not Reported 794 Elev dem: Elev dif: Drift Well Elev miv: 795 Aq code: Not Reported Aq flag: Pct aq: 86 0 Pct aq d: 86 Pct aq r: Pct mag: 0 Pct mag d: 0 Pct mag r: 0 Pct cm: 0 Pct cm d: 0 Pct cm r: 0 0 Pct pcm: 0 Pct pcm d: 0 Pct pcm r: Pct na: 14 Pct na d: Pct na r: 0 14 Pct flag: Not Reported Rock top: -1 0 D r type: Not Reported Spc cpcity: A thicknes: 100 11 A pct aq: A pct maq: 0 A pct pcm: 0 0 0 A pct cm: A pct na: A thickns2: 11 A pct ag2: 100 A pct maq2: 0 A pct pcm2: 0 0 0 A pct cm2: A pct na2: A hit swl: Т F A hit top: A hit rock: A sc lith1: Sand A sc Imod1: Very Fine A sc Imaq1: AQ A sc lpct1: 45 A sc lith2: Sand A sc Imod2: Fine To Coarse A sc Imaq2: AQ A sc lpct2: 35 Pct aq 1: 80 Pct mag 1: 0 Pct cm 1: 0 Pct pcm 1: 0 Pct na 1: 20 0 Pct aq 2: Pct maq 2: 0 0 0 Pct cm 2: Pct pcm 2: 0 0 Pct na 2: Pct aq 3: Pct maq 3: 0 Pct cm 3: 0 Pct pcm 3: 0 Pct na 3: 0 Pct aq 4: 0 Pct maq 4: 0 Pct cm 4: 0 Pct pcm 4: 0 0 Pct na 4: 0 Pct aq 5: Pct maq 5: 0 Pct cm 5: 0 0 0 Pct pcm 5: Pct na 5: 0 0 Pct aq 6: Pct maq 6: 0 Pct cm 6: 0 Pct pcm 6: Pct na 6: 0 Pct aq 7: 0 Pct maq 7: 0 Pct cm 7: 0 Pct pcm 7: 0 Pct na 7: 0 0 Pct maq 8: 0 Pct aq 8: Pct cm 8: 0 Pct pcm 8: 0 Pct na 8: 0 Pct aq 9: 0 0 Pct maq 9: 0 Pct cm 9: 0 0 Pct na 9: Pct pcm 9:

0

0

0

0

0

0

0

0

0

Υ

Pct aq 10: 0 Pct maq 10: Pct cm 10: 0 Pct pcm 10: Pct na 10: 0 Pct aq 11: Pct maq 11: 0 Pct cm 11: Pct pcm 11: 0 Pct na 11: Pct aq 12: 0 Pct maq 12: Pct cm 12: 0 Pct pcm 12: Pct na 12: 0 Pct aq 13: Pct maq 13: 0 Pct cm 13: Pct pcm 13: 0 Pct na 13: Υ Within sec: Loc match: Aq code 1: D Hit swl: Т Athk2: 11 Horiz Conduct: 42.72727

11
East MI WELLS MI20014191
1/2 - 1 Mile
Higher

 Wellid:
 0800003077
 Import id:
 08030817403

 County:
 Barry
 Township:
 Hastings

 Town range:
 03N 08W
 Section:
 17

Owner name: HASTINGS MANUFACTURING CO.

28.94737

9.37243

470

Well addr: Not Reported

Well depth: 148

Vert Conduct:

T2:

D50plek:

Well type: Type II public Wssn: 2028408

 Well num:
 001
 Driller id:
 671

 Const date:
 1939-08-14 00:00:00.000
 Case type:
 Steel-black

 Case dia:
 10

 Case depth:
 138

 Screen frm:
 138

 Screen to:
 148

 Swl:
 12.5

 Test depth:
 10

 Test hours:
 0

Test rate: 250 Test methd: Unknown Grouted: 1 Pmp cpcity: 450

Latitude: 42.6505133 Longitude: -85.28290058

Methd coll: GPS Code Measurement Differential (DGPS)

Elevation: 815

Elev methd: Topographoc Map Interpolation Depth flag: Not Reported

Elev flag: ELEV_DIF > 20 feet -- Abs(Elevation feet DEM_Elevation) > 20 feet

Swl flag: Not Reported

Elev dem: 28 787 Elev dif: Drift Well Elev miv: 815 Aq code: Pct aq: Aq flag: Not Reported 75 Pct aq d: 75 Pct aq r: 0 Pct maq: 0 Pct maq d: 0 0 0 Pct maq r: Pct cm:

| Pct cm d: | 0 | Pct cm r: | 0 |
|----------------|--------------|-------------|---------------|
| Pct pcm: | 25 | Pct pcm d: | 25 |
| Pct pcm r: | 0 | Pct na: | 0 |
| Pct na d: | 0 | Pct na r: | 0 |
| Pct flag: | Not Reported | Rock top: | -1 |
| D r type: | Not Reported | Spc cpcity: | 0 |
| A thicknes: | 60 | A pct aq: | 100 |
| A pct maq: | 0 | A pct pcm: | 0 |
| A pct cm: | 0 | A pct na: | 0 |
| A thickns2: | 136 | A pct aq2: | 73 |
| A pct maq2: | 0 | A pct pcm2: | 27 |
| A pct cm2: | 0 | A pct na2: | 0 |
| A hit swl: | F | A hit top: | F |
| A hit rock: | F | A sc lith1: | Gravel & Sand |
| A sc Imod1: | Not Reported | A sc lmaq1: | AQ |
| A sc lpct1: | 100 | A sc lith2: | Not Reported |
| A sc Imod2: | Not Reported | A sc lmaq2: | Not Reported |
| A sc lpct2: | 0 | Pct aq 1: | 100 |
| Pct maq 1: | 0 | Pct cm 1: | 0 |
| Pct pcm 1: | 0 | Pct na 1: | 0 |
| Pct aq 2: | 100 | Pct maq 2: | 0 |
| Pct cm 2: | 0 | Pct pcm 2: | 0 |
| Pct na 2: | 0 | Pct aq 3: | 55 |
| Pct maq 3: | 0 | Pct cm 3: | 0 |
| Pct pcm 3: | 45 | Pct na 3: | 0 |
| Pct aq 4: | 0 | Pct maq 4: | 0 |
| Pct cm 4: | 0 | Pct pcm 4: | 100 |
| Pct na 4: | 0 | Pct aq 5: | 60 |
| Pct maq 5: | 0 | Pct cm 5: | 0 |
| Pct pcm 5: | 40 | Pct na 5: | 0 |
| Pct aq 6: | 100 | Pct maq 6: | 0 |
| Pct cm 6: | 0 | Pct pcm 6: | 0 |
| Pct na 6: | 0 | Pct aq 7: | 0 |
| Pct mag 7: | 0 | Pct cm 7: | 0 |
| Pct pcm 7: | 0 | Pct na 7: | 0 |
| Pct aq 8: | 0 | Pct maq 8: | 0 |
| Pct cm 8: | 0 | Pct pcm 8: | 0 |
| Pct na 8: | 0 | Pct aq 9: | 0 |
| Pct maq 9: | 0 | Pct cm 9: | 0 |
| Pct pcm 9: | 0 | Pct na 9: | 0 |
| Pct aq 10: | 0 | Pct maq 10: | 0 |
| Pct cm 10: | 0 | Pct pcm 10: | 0 |
| Pct na 10: | 0 | Pct aq 11: | 0 |
| Pct mag 11: | 0 | Pct cm 11: | 0 |
| Pct pcm 11: | 0 | Pct na 11: | 0 |
| Pct aq 12: | 0 | Pct maq 12: | 0 |
| Pct cm 12: | 0 | Pct pcm 12: | 0 |
| Pct na 12: | 0 | Pct aq 13: | 0 |
| Pct mag 13: | 0 | Pct cm 13: | 0 |
| Pct pcm 13: | 0 | Pct na 13: | 0 |
| Within sec: | Υ | Loc match: | Υ |
| Aq code 1: | D | | |
| Hit swl: | F | | |
| Athk2: | 136 | | |
| Horiz Conduct: | 55.51743 | | |
| Vert Conduct: | .03674 | | |
| T2: | 7550.37 | | |
| DE0-1-1- | 4040 00444 | | |

D50plek:

1612.80444

Map ID Direction Distance

Elevation Database EDR ID Number 12 West **MI WELLS** MI20016997 1/2 - 1 Mile Higher Wellid: 08000006940 Import id: Not Reported Rutland Township: County: Barry 03N 09W Town range: Section: 13 SAVE ALOT Owner name: Well addr: 1670 W M37 HWY Well depth: 300 Type III public Well type: 0 Wssn: Well num: Driller id: 2055 Not Reported Const date: 2002-06-10 00:00:00.000 Case type: Steel-black Case dia: 5 Case depth: 207 Screen frm: 0 Screen to: 0 Swl: 28 Test depth: 290 Test hours: 1 Test rate: 200 Test methd: Air Grouted: Pmp cpcity: 50 42.64877802 Latitude: Longitude: -85.3104012 Methd coll: Interpolation-Map Elevation: Elev methd: DEM30M Depth flag: Not Reported Elev flag: Elevation < DEMmin or Elevation > DEMmax Not Reported Swl flag: Elev dem: 777 Elev dif: 777 Elev miv: 777 Aq code: Rock Well Aq flag: Not Reported Pct aq: 51 Pct aq d: 25 Pct aq r: 88 Pct maq: 3 Pct maq d: 0 Pct mag r: 8 Pct cm: 8 Pct cm d: 14 Pct cm r: 0 Pct pcm: 38 Pct pcm d: 61 0 Pct pcm r: 4 Pct na: 0 0 Pct na d: Pct na r: Not Reported Pct flag: Rock top: 178 D r type: Not Reported Spc cpcity: 0 A thicknes: A pct aq: 0 A pct maq: 0 0 A pct pcm: 0 0 A pct cm: A pct na: 0 A thickns2: 0 A pct aq2: 0 A pct maq2: 0 A pct pcm2: 0 0 A pct cm2: A pct na2: F F A hit swl: A hit top: A hit rock: A sc lith1: Not Reported A sc Imod1: Not Reported A sc Imaq1: Not Reported A sc lpct1: A sc lith2: Not Reported Not Reported A sc Imod2: Not Reported A sc Imaq2: 50 A sc lpct2: 0 Pct aq 1: Pct mag 1: 0 Pct cm 1: 0 Pct pcm 1: 50 Pct na 1: 0

Pct aq 2: 0 Pct cm 2: 0 Pct na 2: 0 Pct maq 3: 0 Pct pcm 3: 100 Pct aq 4: 85 Pct cm 4: 0 Pct na 4: 0 Pct maq 5: 0 Pct pcm 5: 10 Pct aq 6: 0 Pct cm 6: 0 Pct na 6: 0 Pct maq 7: 0 Pct pcm 7: 100 Pct aq 8: 0 Pct cm 8: 0 Pct na 8: 0 Pct maq 9: 0 Pct pcm 9: 0 Pct aq 10: 0 Pct cm 10: 0 Pct na 10: 0 Pct maq 11: 0 Pct pcm 11: 0 Pct aq 12: 0 Pct cm 12: 0 Pct na 12: 0 Pct maq 13: 0 0 Pct pcm 13: Within sec: Υ Aq code 1: R F Hit swl: 0 Athk2: Horiz Conduct: 22.15812 Vert Conduct: .00061 3500.9825 T2: D50plek: 902.16826 Pct maq 2: Pct pcm 2: Pct aq 3: Pct cm 3: Pct na 3: Pct maq 4: Pct pcm 4: Pct aq 5: Pct cm 5: Pct na 5: Pct maq 6: Pct pcm 6: Pct aq 7: Pct cm 7: Pct na 7: Pct maq 8: Pct pcm 8: Pct aq 9: Pct cm 9: Pct na 9: Pct maq 10: Pct pcm 10: Pct aq 11: Pct cm 11: Pct na 11: Pct mag 12: Pct pcm 12: Pct aq 13: Pct cm 13: Pct na 13: Loc match:

Import id:

Township:

Section:

Driller id:

Case type:

0

0

0

0

0

15

90 0

0

0

0

0

0

0

0

0

0

0

0

0

0

100

100

13 NW 1/2 - 1 Mile Higher

 Wellid:
 08000005592

 County:
 Barry

 Town range:
 03N 08W

 Owner name:
 LaCERNE PHILO

 Well addr:
 1125 E STATE RD

Well depth: 50

Well type: Household

Wssn: 0

Well num: Not Reported
Const date: 2000-08-07 00:00:00.000

Case dia: 5

MI WELLS MI20015963

Not Reported Hastings

1612 PVC Plastic

Case depth: 46 Screen frm: 46 Screen to: 50 37 Swl: Test depth: 49 Test hours: 1 Test rate: 20 Test methd: Air Grouted: Pmp cpcity: 12 42.6590268 Latitude: -85.3058267 Longitude: Address Matching-House Number Methd coll: Elevation: Elev methd: DEM30M Depth flag: Not Reported Elev flag: Elevation < DEMmin or Elevation > DEMmax Swl flag: Not Reported 787 787 Elev dem: Elev dif: Drift Well Elev miv: 787 Aq code: Not Reported 24 Aq flag: Pct aq: 0 Pct aq d: 24 Pct aq r: Pct mag: 0 Pct mag d: 0 Pct mag r: 0 Pct cm: 76 Pct cm d: 76 Pct cm r: 0 0 Pct pcm: 0 Pct pcm d: 0 0 Pct pcm r: Pct na: 0 Pct na d: 0 Pct na r: Pct flag: Not Reported Rock top: -1 0 D r type: Not Reported Spc cpcity: A thicknes: 8 A pct aq: 100 A pct maq: 0 A pct pcm: 0 0 0 A pct cm: A pct na: A thickns2: 13 A pct ag2: 62 A pct maq2: 0 A pct pcm2: 0 38 0 A pct cm2: A pct na2: A hit swl: F F A hit top: A hit rock: A sc lith1: Sand & Gravel A sc Imod1: Not Reported A sc Imaq1: AQ Not Reported A sc lpct1: 100 A sc lith2: Not Reported Not Reported A sc Imod2: A sc Imaq2: A sc lpct2: 0 Pct aq 1: 20 Pct mag 1: 0 Pct cm 1: 80 Pct pcm 1: 0 Pct na 1: 0 0 0 Pct aq 2: Pct maq 2: 0 Pct cm 2: 100 Pct pcm 2: 0 Pct na 2: 0 Pct aq 3: Pct maq 3: 0 Pct cm 3: 0 Pct pcm 3: 0 Pct na 3: 0 Pct aq 4: 0 Pct maq 4: 0 Pct cm 4: 0 Pct pcm 4: 0 Pct na 4: 0 Pct aq 5: 0 Pct maq 5: 0 Pct cm 5: 0 0 0 Pct pcm 5: Pct na 5: 0 0 Pct aq 6: Pct maq 6: 0 Pct cm 6: 0 Pct pcm 6: Pct na 6: 0 Pct aq 7: 0 Pct maq 7: 0 Pct cm 7: 0 Pct pcm 7: 0 Pct na 7: 0 Pct aq 8: 0 Pct maq 8: 0 Pct cm 8: 0 Pct pcm 8: 0 Pct na 8: 0 Pct aq 9: 0 0 Pct maq 9: 0 Pct cm 9: 0 0 Pct na 9: Pct pcm 9:

Pct aq 10: 0 Pct maq 10: 0 Pct cm 10: 0 Pct pcm 10: 0 0 Pct na 10: 0 Pct aq 11: 0 0 Pct maq 11: Pct cm 11: Pct pcm 11: 0 Pct na 11: 0 Pct aq 12: 0 0 Pct maq 12: Pct pcm 12: Pct cm 12: 0 0 Pct na 12: 0 Pct aq 13: 0 0 Pct maq 13: 0 Pct cm 13: Pct pcm 13: 0 Pct na 13: 0 Υ Within sec: Ν Loc match:

Aq code 1: Not Reported Hit swl: Not Reported

 Athk2:
 0

 Horiz Conduct:
 0

 Vert Conduct:
 0

 T2:
 0

 D50plek:
 0

14 WSW MI WELLS MI20017537 1/2 - 1 Mile

Wellid:0800008042Import id:Not ReportedCounty:BarryTownship:RutlandTown range:03N 09WSection:13

Owner name: PATTON MONUMENT Well addr: 1065 GREET ST

Well depth: 86

Higher

Well type: Type III public

Wssn: 0

 Well num:
 Not Reported
 Driller id:
 2167

 Const date:
 2004-04-05 00:00:00.000
 Case type:
 Steel

 Case dia:
 4

 Case depth:
 82

 Screen frm:
 82

 Screen to:
 86

 Swl:
 35

 Test depth:
 0

 Test hours:
 0

Test rate: 40 Test methd: Plunger Grouted: 1 Pmp cpcity: 12

Latitude: 42.64295524
Longitude: -85.30960461
Methd coll: Interpolation-Map

Elevation: 0

Elev methd: DEM30M Depth flag: Not Reported

Elev flag: Elevation < DEMmin or Elevation > DEMmax

Swl flag: Not Reported

Elev dem: 817 Elev dif: 817 Drift Well Elev miv: 817 Aq code: Aq flag: Not Reported Pct aq: 41 Pct aq d: 41 Pct aq r: 0 Pct maq: 0 Pct maq d: 0 0 51 Pct maq r: Pct cm:

| Pct cm d: | 51 | Pct cm r: | 0 |
|----------------|--------------|-------------|--------------|
| Pct pcm: | 8 | Pct pcm d: | 8 |
| Pct pcm r: | 0 | Pct na: | 0 |
| Pct na d: | 0 | Pct na r: | 0 |
| Pct flag: | Not Reported | Rock top: | -1 |
| D r type: | Not Reported | Spc cpcity: | 0 |
| A thicknes: | 21 | A pct aq: | 76 |
| A pct maq: | 0 | A pct pcm: | 24 |
| A pct cm: | 0 | A pct na: | 0 |
| A thickns2: | 51 | A pct aq2: | 31 |
| A pct maq2: | 0 | A pct pcm2: | 10 |
| A pct cm2: | 59 | A pct na2: | 0 |
| A hit swl: | F | A hit top: | F |
| A hit rock: | F | A sc lith1: | Sand |
| A sc Imod1: | Medium | A sc lmaq1: | AQ |
| A sc lpct1: | 100 | A sc lith2: | Not Reported |
| A sc Imod2: | Not Reported | A sc Imaq2: | Not Reported |
| A sc lpct2: | 0 | Pct aq 1: | 85 |
| Pct maq 1: | 0 | Pct cm 1: | 15 |
| Pct pcm 1: | 0 | Pct na 1: | 0 |
| Pct aq 2: | 10 | Pct maq 2: | 0 |
| Pct cm 2: | 80 | Pct pcm 2: | 10 |
| Pct na 2: | 0 | Pct aq 3: | 0 |
| Pct maq 3: | 0 | Pct cm 3: | 100 |
| Pct pcm 3: | 0 | Pct na 3: | 0 |
| Pct aq 4: | 50 | Pct maq 4: | 0 |
| Pct cm 4: | 25 | Pct pcm 4: | 25 |
| Pct na 4: | 0 | Pct aq 5: | 0 |
| Pct maq 5: | 0 | Pct cm 5: | 0 |
| Pct pcm 5: | 0 | Pct na 5: | 0 |
| Pct aq 6: | 0 | Pct maq 6: | 0 |
| Pct cm 6: | 0 | Pct pcm 6: | 0 |
| Pct na 6: | 0 | Pct aq 7: | 0 |
| Pct maq 7: | 0 | Pct cm 7: | 0 |
| Pct pcm 7: | 0 | Pct na 7: | 0 |
| Pct aq 8: | 0 | Pct maq 8: | 0 |
| Pct cm 8: | 0 | Pct pcm 8: | 0 |
| Pct na 8: | 0 | Pct aq 9: | 0 |
| Pct maq 9: | 0 | Pct cm 9: | 0 |
| Pct pcm 9: | 0 | Pct na 9: | 0 |
| Pct aq 10: | 0 | Pct maq 10: | 0 |
| Pct cm 10: | 0 | Pct pcm 10: | 0 |
| Pct na 10: | 0 | Pct aq 11: | 0 |
| Pct maq 11: | 0 | Pct cm 11: | 0 |
| Pct pcm 11: | 0 | Pct na 11: | 0 |
| Pct aq 12: | 0 | Pct maq 12: | 0 |
| Pct cm 12: | 0 | Pct pcm 12: | 0 |
| Pct na 12: | 0 | Pct aq 13: | 0 |
| Pct maq 13: | 0 | Pct cm 13: | 0 |
| Pct pcm 13: | 0 | Pct na 13: | 0 |
| Within sec: | Υ | Loc match: | Υ |
| Aq code 1: | D | | |
| Hit swl: | F | | |
| Athk2: | 51 | | |
| Horiz Conduct: | 21.56967 | | |
| Vert Conduct: | .00017 | | |
| T2: | 1100.053 | | |
| D50plek: | 97.11872 | | |
| | | | |

| Map ID | |
|-----------|--|
| Direction | |
| Distance | |
| | |

Database EDR ID Number Elevation 15 SW **MI WELLS** MI20016082 1/2 - 1 Mile Higher Wellid: 08000005759 Import id: Not Reported Township: Hastings County: Barry 03N 08W Town range: Section: 18 Mr. & Mrs. David Storm Owner name: Well addr: 1421 Ann Well depth: 161 Well type: Household Wssn: 0 Well num: Driller id: 2167 Not Reported Const date: 2000-10-16 00:00:00.000 Case type: **PVC Plastic** Case dia: 5 Case depth: 154 Screen frm: 0 Screen to: 0 Swl: 34 Test depth: 0 0 Test hours: Test rate: 40 Test methd: Air Grouted: Pmp cpcity: 12 42.64002656 Latitude: Longitude: -85.30763161 Methd coll: Address Matching-House Number Elevation: Elev methd: Topographoc Map Interpolation Depth flag: Not Reported Elev flag: Not Reported Not Reported Swl flag: Elev dem: 807 Elev dif: Elev miv: 801 Aq code: Rock Well Aq flag: Not Reported Pct aq: 18 Pct aq d: 8 Pct aq r: 100 Pct maq: 16 Pct maq d: 18 Pct mag r: 0 Pct cm: 0 Pct cm d: 0 Pct cm r: 0 Pct pcm: 50 Pct pcm d: 56 0 Pct pcm r: 0 Pct na: 0 0 Pct na d: Pct na r: Not Reported Pct flag: Rock top: 144 D r type: Not Reported Spc cpcity: 0 A thicknes: A pct aq: 0 A pct maq: 0 0 A pct pcm: 0 0 A pct cm: A pct na: 0 A thickns2: 0 A pct aq2: 0 A pct maq2: 0 A pct pcm2: 0 0 A pct cm2: A pct na2: F A hit swl: A hit top: Τ A hit rock: A sc lith1: Not Reported A sc Imod1: Not Reported A sc Imaq1: Not Reported A sc lpct1: A sc lith2: Not Reported A sc Imod2: Not Reported A sc Imaq2: Not Reported 40 A sc lpct2: 0 Pct aq 1: Pct mag 1: 0 Pct cm 1: 0 Pct pcm 1: 25 Pct na 1: 35

Pct maq 2: 0 Pct pcm 2: 85 Pct aq 3: 5 0 Pct cm 3: 0 Pct na 3: Pct maq 4: 0 Pct pcm 4: 100 Pct aq 5: 0 0 Pct cm 5: Pct na 5: 0 Pct maq 6: 52 Pct pcm 6: 48 Pct aq 7: 0 0 Pct cm 7: Pct na 7: 0 Pct maq 8: 0 0 Pct pcm 8: Pct aq 9: 0 Pct cm 9: 0 Pct na 9: 0 Pct maq 10: 0 0 Pct pcm 10: Pct aq 11: 0 0 Pct cm 11: Pct na 11: 0 Pct maq 12: 0 Pct pcm 12: 0 0 Pct aq 13: 0 Pct cm 13: Pct na 13: 0 Loc match: Υ

B16
WSW
MI WELLS
MI20014186
1/2 - 1 Mile

Wellid:08000003072Import id:County:BarryTownship:Town range:03N 09WSection:

Owner name: GUERNSEY DAIRY QUEEN

Well addr: Not Reported

Well depth: 0

Higher

Well type: Type II public Wssn: 2006908

Well num: 001 Driller id:

Const date: Not Reported Case type: Unknown

Case dia: 0

08030807401

Rutland

13

Case depth: 0 Screen frm: 0 Screen to: 0 999.99 Swl: Test depth: 0 Test hours: 0 Test rate: 0 Test methd: Unknown Grouted: Pmp cpcity: 42.64396883 Latitude: -85.3116317 Longitude: Methd coll: GPS Code Measurement Differential (DGPS) Elevation: Elev methd: Topographoc Map Interpolation Depth flag: Well Depth = 0 Elev flag: Not Reported Swl flag: SWL > Well Depth Elev dem: 810 Elev dif: Elev miv: 814 Aq code: Unknown Lithology Not Reported Aq flag: Pct aq: Pct aq d: 0 Pct aq r: 0 Pct mag: 0 Pct mag d: 0 Pct mag r: 0 Pct cm: 0 Pct cm d: 0 Pct cm r: 0 0 Pct pcm: 0 Pct pcm d: 0 0 Pct pcm r: Pct na: 0 Pct na d: 0 Pct na r: Pct flag: Not Reported Rock top: -3 0 D r type: Not Reported Spc cpcity: A thicknes: 0 0 A pct aq: A pct maq: 0 A pct pcm: 0 0 0 A pct cm: A pct na: A thickns2: 0 0 A pct ag2: 0 A pct maq2: 0 A pct pcm2: 0 0 A pct cm2: A pct na2: A hit swl: F A hit top: Т A hit rock: A sc lith1: Not Reported A sc Imod1: Not Reported A sc Imaq1: Not Reported Not Reported A sc lpct1: A sc lith2: A sc Imod2: Not Reported A sc Imaq2: Not Reported A sc lpct2: 0 Pct aq 1: 0 Pct mag 1: 0 Pct cm 1: 0 Pct pcm 1: 0 Pct na 1: 0 0 0 Pct aq 2: Pct maq 2: 0 0 Pct cm 2: Pct pcm 2: 0 0 Pct na 2: Pct aq 3: Pct maq 3: 0 Pct cm 3: 0 Pct pcm 3: 0 Pct na 3: 0 Pct aq 4: 0 Pct maq 4: 0 Pct cm 4: 0 Pct pcm 4: 0 0 Pct na 4: 0 Pct aq 5: Pct maq 5: 0 Pct cm 5: 0 0 0 Pct pcm 5: Pct na 5: 0 0 Pct aq 6: Pct maq 6: 0 Pct cm 6: 0 Pct pcm 6: 0 0 Pct na 6: Pct aq 7: Pct maq 7: 0 Pct cm 7: 0 Pct pcm 7: 0 Pct na 7: 0 0 Pct maq 8: 0 Pct aq 8: Pct cm 8: 0 Pct pcm 8: 0 Pct na 8: 0 Pct aq 9: 0 0 Pct maq 9: 0 Pct cm 9: 0 0 Pct pcm 9: Pct na 9:

Pct aq 10: 0 Pct maq 10: 0 Pct cm 10: 0 Pct pcm 10: 0 Pct na 10: 0 Pct aq 11: 0 0 Pct maq 11: 0 Pct cm 11: Pct na 11: 0 Pct pcm 11: 0 Pct aq 12: 0 0 Pct maq 12: Pct cm 12: 0 Pct pcm 12: 0 Pct na 12: 0 Pct aq 13: 0 Pct maq 13: 0 Pct cm 13: 0 Pct pcm 13: 0 Pct na 13: 0 Within sec: Υ Loc match: Υ

Aq code 1: Not Reported Hit swl: Not Reported Athk2: 0

Horiz Conduct: 0
Vert Conduct: 0
T2: 0
D50plek: 0

17 SW MI WELLS MI20017182 1/2 - 1 Mile

1/2 - 1 N Higher

Wellid:0800007241Import id:Not ReportedCounty:BarryTownship:RutlandTown range:03N 09WSection:13

Owner name: HASTINGS ORTHOPEDIC CLINIC

Well addr: 840 COOK ROAD

Well depth: 267

Well type: Type II public Wssn: 2035908

Well num: 001 Driller id:

 Case dia:
 5

 Case depth:
 217

 Screen frm:
 0

 Screen to:
 0

 Swl:
 0

 Test depth:
 0

 Test hours:
 0

Test rate: 0 Test methd: Unknown Grouted: 0 Pmp opcity: 30

Latitude: 42.64185337 Longitude: -85.3102414

Methd coll: GPS Code Measurement Differential (DGPS)

Elevation: 861

Elev methd: Topographoc Map Interpolation Depth flag: Not Reported

Elev flag: ELEV_DIF > 20 feet -- Abs(Elevation feet DEM_Elevation) > 20 feet

Swl flag: SWL = 0

Elev dem: 830 Elev dif: 31

Elev miv: 861 Aq code: Unknown Lithology

Aq flag: Not Reported 0 Pct aq: Pct aq d: 0 Pct aq r: 0 Pct maq: 0 Pct maq d: 0 0 0 Pct maq r: Pct cm:

| Pct cm d: | 0 | Pct cm r: | 0 |
|----------------|--------------|-------------|--------------|
| Pct pcm: | 0 | Pct pcm d: | 0 |
| Pct pcm r: | 0 | Pct na: | 0 |
| Pct na d: | 0 | Pct na r: | 0 |
| Pct flag: | Not Reported | Rock top: | -3 |
| D r type: | Not Reported | Spc cpcity: | 0 |
| A thicknes: | 0 | A pct aq: | 0 |
| A pct maq: | 0 | A pct pcm: | 0 |
| A pct cm: | 0 | A pct na: | 0 |
| A thickns2: | 0 | A pct aq2: | 0 |
| A pct maq2: | 0 | A pct pcm2: | 0 |
| A pct cm2: | 0 | A pct na2: | 0 |
| A hit swl: | F | A hit top: | T |
| A hit rock: | F | A sc lith1: | Not Reported |
| A sc Imod1: | Not Reported | A sc lmaq1: | Not Reported |
| A sc lpct1: | 0 | A sc lith2: | Not Reported |
| A sc Imod2: | Not Reported | A sc Imaq2: | Not Reported |
| A sc lpct2: | 0 | Pct aq 1: | 0 |
| Pct maq 1: | 0 | Pct cm 1: | 0 |
| Pct pcm 1: | 0 | Pct na 1: | 100 |
| Pct aq 2: | 0 | Pct maq 2: | 0 |
| Pct cm 2: | 0 | Pct pcm 2: | 0 |
| Pct na 2: | 100 | Pct aq 3: | 0 |
| Pct maq 3: | 0 | Pct cm 3: | 0 |
| Pct pcm 3: | 0 | Pct na 3: | 100 |
| Pct aq 4: | 0 | Pct maq 4: | 0 |
| Pct cm 4: | 0 | Pct pcm 4: | 0 |
| Pct na 4: | 100 | Pct aq 5: | 0 |
| Pct maq 5: | 0 | Pct cm 5: | 0 |
| Pct pcm 5: | 0 | Pct na 5: | 100 |
| Pct aq 6: | 0 | Pct maq 6: | 0 |
| Pct cm 6: | 0 | Pct pcm 6: | 0 |
| Pct na 6: | 100 | Pct aq 7: | 0 |
| Pct maq 7: | 0 | Pct cm 7: | 0 |
| Pct pcm 7: | 0 | Pct na 7: | 100 |
| Pct aq 8: | 0 | Pct maq 8: | 0 |
| Pct cm 8: | 0 | Pct pcm 8: | 0 |
| Pct na 8: | 100 | Pct aq 9: | 0 |
| Pct maq 9: | 0 | Pct cm 9: | 0 |
| Pct pcm 9: | 0 | Pct na 9: | 100 |
| Pct aq 10: | 0 | Pct maq 10: | 0 |
| Pct cm 10: | 0 | Pct pcm 10: | 0 |
| Pct na 10: | 0 | Pct aq 11: | 0 |
| Pct maq 11: | 0 | Pct cm 11: | 0 |
| Pct pcm 11: | 0 | Pct na 11: | 0 |
| Pct aq 12: | 0 | Pct maq 12: | 0 |
| Pct cm 12: | 0 | Pct pcm 12: | 0 |
| Pct na 12: | 0 | Pct aq 13: | 0 |
| Pct maq 13: | 0 | Pct cm 13: | 0 |
| Pct pcm 13: | 0 | Pct na 13: | 0 |
| Within sec: | Υ | Loc match: | Υ |
| Aq code 1: | Not Reported | | |
| Hit swl: | Not Reported | | |
| Athk2: | 0 | | |
| Horiz Conduct: | 0 | | |
| Vert Conduct: | 0 | | |
| T2: | 0 | | |
| DEO-I-I- | ^ | | |

D50plek:

0

Map ID Direction Distance

Elevation Database EDR ID Number **MI WELLS** MI20016189 North 1/2 - 1 Mile Higher Wellid: 08000005905 Import id: Not Reported Township: Hastings County: Barry 03N 08W Town range: Section: Owner name: Hastings Country Club Well addr: 1550 N. Broadway Well depth: 382 Well type: Type II public 2009008 Wssn: Well num: Driller id: 2167 001 2002-05-02 00:00:00.000 Const date: Case type: **PVC Plastic** Case dia: 5 Case depth: 196 Screen frm: 0 Screen to: 0 Swl: 82.5 Test depth: 0 0 Test hours: Test rate: 50 Test methd: Air Grouted: Pmp cpcity: 25 Latitude: 42.66331771 Longitude: -85.29762552 Methd coll: GPS Code Measurement Differential (DGPS) Elevation: Elev methd: Topographoc Map Interpolation Not Reported Depth flag: Elev flag: Not Reported Not Reported Swl flag: Elev dem: 863 Elev dif: Elev miv: 871 Aq code: Rock Well Aq flag: Not Reported Pct aq: 25 93 Pct aq d: 4 Pct aq r: Pct maq: 20 Pct maq d: 25 Pct mag r: Pct cm: 12 1 Pct cm d: 14 Pct cm r: 5 Pct pcm: 43 Pct pcm d: 57 0 0 Pct pcm r: Pct na: 0 0 Pct na d: Pct na r: Not Reported Pct flag: Rock top: 291 D r type: Not Reported Spc cpcity: 0 A thicknes: A pct aq: 0 A pct maq: 0 0 A pct pcm: 0 0 A pct cm: A pct na: A thickns2: 0 A pct aq2: 0 A pct maq2: 0 A pct pcm2: 0 0 0 A pct cm2: A pct na2: F F A hit swl: A hit top: A hit rock: A sc lith1: Not Reported A sc Imod1: Not Reported A sc Imaq1: Not Reported A sc lpct1: A sc lith2: Not Reported A sc Imod2: Not Reported A sc Imaq2: Not Reported A sc lpct2: 0 Pct aq 1: 0 Pct mag 1: 0 Pct cm 1: 75 Pct pcm 1: 25 Pct na 1:

| Pct maq 2: |
|-------------|
| Pct pcm 2: |
| Pct aq 3: |
| Pct cm 3: |
| Pct na 3: |
| Pct maq 4: |
| Pct pcm 4: |
| Pct aq 5: |
| Pct cm 5: |
| Pct na 5: |
| Pct maq 6: |
| Pct pcm 6: |
| Pct aq 7: |
| Pct cm 7: |
| Pct na 7: |
| Pct maq 8: |
| Pct pcm 8: |
| Pct aq 9: |
| Pct cm 9: |
| Pct na 9: |
| Pct maq 10: |
| Pct pcm 10: |
| Pct aq 11: |
| Pct cm 11: |
| Pct na 11: |
| Pct maq 12: |
| Pct pcm 12: |
| Pct aq 13: |
| Pct cm 13: |
| Pct na 13: |
| Loc match: |
| |

0

0

30

0

0

5

0

0

0

0

0

0

0

97

3

0

12

0

0

0

0

0

0

0

0

0

0

0

Υ

100

100

MI WELLS MI20017338

19 SSE 1/2 - 1 Mile Higher

Wellid: 08000007555 County: Barry 03N 08W Town range:

Owner name: DAVID & RICE FLOOD 214 SCHRINER ST Well addr:

Well depth: 128 Well type: Household

Wssn: 0

Well num: Not Reported 2003-07-25 00:00:00.000 Const date:

Case dia:

Import id: Not Reported Hastings Township: Section:

20

2167 Driller id:

PVC Plastic Case type:

Case depth: 128 Screen frm: 123 Screen to: 128 Swl: 4 0 Test depth: Test hours: 0 Test rate: 75 Test methd: Air Grouted: Pmp cpcity: 12 42.63737986 Latitude: -85.28645621 Longitude: Methd coll: Address Matching-House Number Elevation: Elev methd: Topographoc Map Interpolation Depth flag: Not Reported Elev flag: Not Reported Swl flag: Not Reported 800 Elev dem: Elev dif: Drift Well Elev miv: 804 Aq code: Not Reported Aq flag: Pct aq: 27 0 Pct aq d: 27 Pct aq r: Pct mag: 8 Pct mag d: 8 Pct mag r: 0 Pct cm: 7 Pct cm d: 7 Pct cm r: 0 Pct pcm: 58 Pct pcm d: 58 0 0 Pct pcm r: Pct na: 0 Pct na d: 0 Pct na r: Pct flag: Not Reported Rock top: -1 0 D r type: Not Reported Spc cpcity: A thicknes: 11 A pct aq: 100 A pct maq: 0 A pct pcm: 0 0 0 A pct cm: A pct na: A thickns2: 124 A pct ag2: 28 A pct maq2: 8 A pct pcm2: 60 0 A pct cm2: 4 A pct na2: A hit swl: F F A hit top: A hit rock: A sc lith1: Sand & Gravel A sc Imod1: Not Reported A sc Imaq1: AQ Not Reported A sc lpct1: 100 A sc lith2: Not Reported Not Reported A sc Imod2: A sc Imaq2: A sc lpct2: 0 Pct aq 1: 55 Pct mag 1: 0 Pct cm 1: 45 Pct pcm 1: 0 Pct na 1: 0 50 50 Pct aq 2: Pct maq 2: Pct cm 2: 0 Pct pcm 2: 0 0 15 Pct na 2: Pct aq 3: Pct maq 3: 0 Pct cm 3: 0 Pct pcm 3: 85 Pct na 3: 0 Pct aq 4: 0 Pct maq 4: 0 Pct cm 4: 0 Pct pcm 4: 100 Pct na 4: 0 Pct aq 5: 0 Pct maq 5: 0 Pct cm 5: 0 100 0 Pct pcm 5: Pct na 5: 32 0 Pct aq 6: Pct maq 6: Pct cm 6: 0 Pct pcm 6: 68 Pct na 6: 0 Pct aq 7: 0 Pct maq 7: 0 Pct cm 7: 0 Pct pcm 7: 0 Pct na 7: 0 Pct aq 8: 0 Pct maq 8: 0 Pct cm 8: 0 Pct pcm 8: 0 Pct na 8: 0 Pct aq 9: 0 0 Pct maq 9: 0 Pct cm 9: 0 0 Pct na 9: Pct pcm 9:

| Pct aq 10: | 0 | Pct maq 10: |
|----------------|----------|-------------|
| Pct cm 10: | 0 | Pct pcm 10: |
| Pct na 10: | 0 | Pct aq 11: |
| Pct maq 11: | 0 | Pct cm 11: |
| Pct pcm 11: | 0 | Pct na 11: |
| Pct aq 12: | 0 | Pct maq 12: |
| Pct cm 12: | 0 | Pct pcm 12: |
| Pct na 12: | 0 | Pct aq 13: |
| Pct maq 13: | 0 | Pct cm 13: |
| Pct pcm 13: | 0 | Pct na 13: |
| Within sec: | Υ | Loc match: |
| Aq code 1: | D | |
| Hit swl: | F | |
| Athk2: | 124 | |
| Horiz Conduct: | 22.59468 | |
| Vert Conduct: | .00216 | |

2801.7405

572.99684

B20 WSW MI WELLS MI20015827 1/2 - 1 Mile

1/2 - 1 Mi Higher

T2:

D50plek:

Wellid:08000005404Import id:Not ReportedCounty:BarryTownship:HastingsTown range:03N 08WSection:18

Owner name: Joseph Hubert Well addr: 1220 W. Green St.

Well depth: 109
Well type: Household

Wssn: 0

Well num: Not Reported Driller id: 2167

Const date: 2000-05-23 00:00:00.000 Case type: PVC Plastic

 Case dia:
 5

 Case depth:
 90

 Screen frm:
 90

 Screen to:
 109

 Swl:
 30

 Test depth:
 0

 Test hours:
 0

Test rate: 75 Test methd: Air Grouted: 1 Pmp cpcity: 20

Latitude: 42.64360056 Longitude: -85.31254798

Methd coll: Address Matching-House Number

Elevation: 811

Elev methd: Topographoc Map Interpolation Depth flag: Not Reported

Elev flag: Not Reported

Swl flag: Not Reported

Elev dem: 817 Elev dif: 6

Drift Well Elev miv: 811 Aq code: Aq flag: Not Reported Pct aq: 76 Pct aq d: 76 Pct aq r: 0 0 Pct maq: 0 Pct maq d: 0 0 Pct maq r: Pct cm:

| Pct cm d: | 0 | Pct cm r: | 0 |
|----------------|--------------|-------------------------|--------------|
| Pct pcm: | 24 | Pct pcm d: | 24 |
| Pct pcm r: | 0 | Pct na: | 0 |
| Pct na d: | 0 | Pct na r: | 0 |
| Pct flag: | Not Reported | Rock top: | -1 |
| D r type: | Not Reported | Spc cpcity: | 0 |
| A thicknes: | 79 | A pct aq: | 80 |
| A pct maq: | 0 | A pct pcm: | 20 |
| A pct cm: | 0 | A pct na: | 0 |
| A thickns2: | 79 | A pct aq2: | 80 |
| A pct maq2: | 0 | A pct pcm2: | 20 |
| A pct cm2: | 0 | A pct na2: | 0 |
| A hit swl: | T | A hit top: | F |
| A hit rock: | F | A sc lith1: | Sand |
| A sc Imod1: | W/Gravel | A sc Imaq1: | AQ |
| A sc lpct1: | 100 | A sc lith2: | Not Reported |
| A sc Imod2: | Not Reported | A sc Imaq2: | Not Reported |
| A sc lpct2: | 0 | Pct aq 1: | 55 |
| Pct maq 1: | 0 | Pct cm 1: | 0 |
| Pct pcm 1: | 45 | Pct na 1: | 0 |
| Pct aq 2: | 95 | Pct maq 2: | 0 |
| Pct cm 2: | 0 | Pct pcm 2: | 5 |
| Pct na 2: | 0 | Pct aq 3: | 100 |
| Pct maq 3: | 0 | Pct cm 3: | 0 |
| Pct pcm 3: | 0 | Pct na 3: | 0 |
| Pct aq 4: | 60 | Pct maq 4: | 0 |
| Pct cm 4: | 0 | Pct pcm 4: | 40 |
| Pct na 4: | 0 | Pct aq 5: | 60 |
| Pct maq 5: | 0 | Pct cm 5: | 0 |
| Pct pcm 5: | 40 | Pct na 5: | 0 |
| Pct aq 6: | 0 | Pct maq 6: | 0 |
| Pct cm 6: | 0 | Pct pcm 6: | 0 |
| Pct na 6: | 0 | Pct aq 7: | 0 |
| Pct maq 7: | 0 | Pct cm 7: | 0 |
| Pct pcm 7: | 0 | Pct na 7: | 0 |
| Pct aq 8: | 0 | Pct maq 8: | 0 |
| Pct cm 8: | 0 | | 0 |
| Pct na 8: | 0 | Pct pcm 8: Pct aq 9: | 0 |
| | 0 | Pct cm 9: | 0 |
| Pct maq 9: | | | 0 |
| Pct pcm 9: | 0 | Pct na 9: | 0 |
| Pct aq 10: | 0 | Pct maq 10: | |
| Pct cm 10: | 0 | Pct pcm 10: | 0 |
| Pct na 10: | 0 | Pct aq 11: | 0 |
| Pct maq 11: | 0 | Pct cm 11: | 0 |
| Pct pcm 11: | 0 | Pct na 11: | 0 |
| Pct aq 12: | 0 | Pct maq 12: | 0 |
| Pct cm 12: | 0 | Pct pcm 12: | 0 |
| Pct na 12: | 0 | Pct aq 13: | 0 |
| Pct maq 13: | 0 | Pct cm 13: | 0 |
| Pct pcm 13: | 0 | Pct na 13: | 0 |
| Within sec: | Y | Loc match: | Υ |
| Aq code 1: | D | | |
| Hit swl: | Т | | |
| Athk2: | 79 | | |
| Horiz Conduct: | 59.4957 | | |
| Vert Conduct: | .04935 | | |
| T2: | 4700.16 | | |
| D50plek: | 596.80822 | | |
| | | | |

Map ID Direction Distance

Elevation Database EDR ID Number 21 NNE **MI WELLS** MI20016981 1/2 - 1 Mile Higher Wellid: 08000006922 Import id: Not Reported Township: Hastings County: Barry 03N 08W Town range: Section: **HOWARD GIBSON** Owner name: Well addr: 1614 N BROADWAY Well depth: 77 Well type: Household 0 Wssn: Well num: Driller id: 1601 Not Reported 2002-09-16 00:00:00.000 Const date: Case type: **PVC Plastic** Case dia: 5 Case depth: 72 Screen frm: 72 Screen to: 77 Swl: 35 Test depth: 67 Test hours: 1 Test rate: 40 Test methd: Air Grouted: Pmp cpcity: 10 42.66352452 Latitude: Longitude: -85.29061258 Methd coll: Address Matching-House Number Elevation: Elev methd: DEM30M Depth flag: Not Reported Elev flag: Elevation < DEMmin or Elevation > DEMmax Not Reported Swl flag: Elev dem: 876 876 Elev dif: Elev miv: 876 Aq code: Drift Well Aq flag: Not Reported Pct aq: 13 0 Pct aq d: 13 Pct aq r: Pct maq: Pct maq d: 45 45 Pct mag r: 0 Pct cm: 42 Pct cm d: 42 Pct cm r: 0 Pct pcm: 0 Pct pcm d: 0 0 Pct pcm r: 0 Pct na: 0 0 Pct na r: Pct na d: Not Reported Pct flag: Rock top: -1 D r type: Not Reported Spc cpcity: 0 A thicknes: 10 A pct aq: 100 A pct maq: 0 0 A pct pcm: 0 0 A pct cm: A pct na: A thickns2: 42 A pct aq2: 24 A pct maq2: 0 A pct pcm2: 0 76 0 A pct cm2: A pct na2: F F A hit swl: A hit top: Sand & Gravel A hit rock: A sc lith1: A sc Imod1: Water Bearing A sc Imaq1: AQ A sc lpct1: 100 A sc lith2: Not Reported A sc Imod2: Not Reported A sc Imaq2: Not Reported A sc lpct2: 0 Pct aq 1: 0 Pct mag 1: 100 Pct cm 1: 0 Pct pcm 1: Pct na 1: 0

| Pct aq 2: Pct cm 2: Pct na 2: Pct maq 3: Pct pcm 3: Pct aq 4: Pct cm 4: Pct na 4: Pct maq 5: Pct pcm 5: Pct aq 6: Pct cm 6: Pct na 6: Pct na 7: Pct pcm 7: Pct pcm 7: Pct aq 8: Pct cm 8: Pct na 8: Pct maq 9: Pct pcm 9: Pct aq 10: Pct cm 10: Pct na 10: Pct maq 11: Pct pcm 11: Pct aq 12: Pct cm 12: Pct na 13: | 0 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
|---|---|
| | - |
| | - |
| Pct cm 12: | - |
| | - |
| Pct pcm 13: | 0 |
| Within sec: | Y |
| Aq code 1: | D |
| Hit swl: | F |
| Athk2: | 42 |
| Horiz Conduct: | 11.90484 |
| Vert Conduct: | .00013 |
| T2: | 500.0032 |
| D50plek: | 37.93968 |
| | |

| Pct maq 2: | 75 |
|-------------|-----|
| Pct pcm 2: | 0 |
| Pct aq 3: | 0 |
| Pct cm 3: | 100 |
| Pct na 3: | 0 |
| Pct maq 4: | 0 |
| Pct pcm 4: | 0 |
| Pct aq 5: | 0 |
| Pct cm 5: | 0 |
| Pct na 5: | 0 |
| Pct maq 6: | 0 |
| Pct pcm 6: | 0 |
| Pct aq 7: | 0 |
| Pct cm 7: | 0 |
| Pct na 7: | 0 |
| Pct maq 8: | 0 |
| Pct pcm 8: | 0 |
| Pct aq 9: | 0 |
| Pct cm 9: | 0 |
| Pct na 9: | 0 |
| Pct maq 10: | 0 |
| Pct pcm 10: | 0 |
| Pct aq 11: | 0 |
| Pct cm 11: | 0 |
| Pct na 11: | 0 |
| Pct maq 12: | 0 |
| Pct pcm 12: | 0 |
| Pct aq 13: | 0 |
| Pct cm 13: | 0 |
| Pct na 13: | 0 |
| Loc match: | Υ |

AREA RADON INFORMATION

State Database: MI Radon

Radon Test Results

| Zipcode | Test Date | LT Sign | Result |
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| 49058 | 11/12/2008 | | 1.3 |
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| 49058 | 2/8/2007 | 3.5 |
| 49058 | 1/28/2002 | 3.4 |
| 49058 | 1/28/2002 | 3.4 |
| 49058 | 10/26/2001 | 3.4 |
| 49058 | 4/5/2005 | 3.4 |
| 49058 | 2/21/2005 | 3.4 |
| 49058 | 2/21/2005 | 3.4 |
| 49058 | 9/8/2006 | 3.4 |
| | 11/8/2002 | |
| 49058 49058 | 1 1/0/2002 | 3.2 |
| 43030 | | |
| | | |

| | 1/21/2002 | | 2.2 |
|-------|------------|---|-----|
| 40050 | 1/21/2002 | | 3.2 |
| 49058 | 2/3/2005 | | 3.2 |
| 49058 | 3/1/2005 | | 3.2 |
| 49058 | 2/15/2005 | | 3.2 |
| 49058 | 2/2/2006 | | 3.2 |
| 49058 | 2/24/2006 | | 3.2 |
| 49058 | 6/3/2006 | | 3.2 |
| 49058 | 11/2/2009 | | 3.4 |
| 49058 | 11/2/2009 | | 3.4 |
| 49058 | 11/10/2009 | | 3.4 |
| 49058 | 10/15/1999 | | 3.1 |
| 49058 | 2/6/2001 | | 3.1 |
| 49058 | 11/12/2009 | | 3.1 |
| | 10/27/2009 | | |
| 49058 | | | 3.3 |
| 49058 | 10/30/2003 | | 3.3 |
| 49058 | 3/29/2004 | | 3.3 |
| 49058 | 5/29/2006 | | 3.2 |
| 49058 | 10/27/2006 | | 3.3 |
| 49058 | 2/21/2000 | | 3.2 |
| 49058 | 4/21/1994 | | 3.2 |
| 49058 | 2/15/1995 | | 3.2 |
| 49058 | 1/26/2001 | | 3.2 |
| 49058 | 2/12/2009 | | 3.1 |
| 49058 | 1/21/2009 | < | 0.3 |
| 49058 | 1/29/2010 | | 3.2 |
| 49058 | 4/15/1998 | | 3.0 |
| 49058 | 11/4/2002 | | 3.0 |
| 49058 | 4/28/2008 | | 3.3 |
| 49058 | 4/3/2008 | | 3.3 |
| | 4/3/2008 | | 3.3 |
| 49058 | | | |
| 49058 | 11/30/1993 | | 3.3 |
| 49058 | 11/12/1998 | | 3.9 |
| 49058 | 1/17/2002 | | 3.9 |
| 49058 | 10/29/2002 | | 3.9 |
| 49058 | 10/30/2001 | | 3.9 |
| 49058 | 11/5/2002 | | 3.9 |
| 49058 | 10/26/2009 | | 3.8 |
| 49058 | 10/29/2001 | | 3.7 |
| 49058 | 11/9/1998 | | 3.1 |
| 49058 | 2/11/2004 | | 3.9 |
| 49058 | 2/1/2005 | | 3.9 |
| 49058 | 2/4/2006 | | 3.9 |
| 49058 | 1/30/2002 | | 3.7 |
| 49058 | 2/2/2002 | | 3.7 |
| 49058 | 6/10/2003 | | 3.7 |
| 49058 | 12/10/2004 | | 3.7 |
| 49058 | 4/18/2005 | | 3.7 |
| 49058 | 1/28/2005 | | 3.7 |
| | | | |
| 49058 | 2/24/2004 | | 3.0 |
| 49058 | 2/20/2007 | | 3.9 |
| 49058 | 1/28/2008 | | 3.9 |
| 49058 | 1/29/2001 | | 3.9 |
| 49058 | 1/27/2010 | < | 0.3 |
| 49058 | 1/24/2009 | | 3.9 |
| 49058 | 1/30/2002 | | 3.1 |
| 49058 | 5/4/2002 | | 3.1 |
| 49058 | | | |
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| | 2/17/2002 | | 2 1 | | | |
|-------|-----------------------|---|-----|--|--|--|
| 49058 | 2/17/2003 2/1/2005 | | 3.1 | | | |
| | | | 3.1 | | | |
| 49058 | 12/15/2009 | | 3.9 | | | |
| 49058 | 2/4/2003 1/19/2010 | | | | | |
| 49058 | 1/19/2010 | | | | | |
| 49058 | 2/13/2009 | | | | | |
| 49058 | 11/30/1993 | | | | | |
| 49058 | 11/2/2002 | | 3.8 | | | |
| 49058 | 1/22/2002 | | 3.8 | | | |
| 49058 | 2/9/2002 | | 3.8 | | | |
| 49058 | 2/7/2005 | | 3.8 | | | |
| 49058 | 1/29/2004 | | 3.8 | | | |
| 49058 | 2/9/1996 | | 3.6 | | | |
| 49058 | 2/24/1998 | | 3.6 | | | |
| 49058 | 4/29/2002 | | 3.6 | | | |
| 49058 | 2/6/2009 | < | 0.3 | | | |
| 49058 | 2/6/2009 | < | 0.3 | | | |
| 49058 | 2/26/2009 | < | 0.3 | | | |
| 49058 | 2/6/2006 | | 1.7 | | | |
| 49058 | 11/3/2008 | | 1.7 | | | |
| | 3/18/2008 | | 1.7 | | | |
| 49058 | 10/17/2008 | | | | | |
| 49058 | | | 1.7 | | | |
| 49058 | 2/19/2007 | | 1.7 | | | |
| 49058 | 9/29/1999 | | 1.7 | | | |
| 49058 | 12/31/1993 | | 1.7 | | | |
| 49058 | 12/28/2001 | | 1.7 | | | |
| 49058 | 1/26/2002 | | 1.7 | | | |
| 49058 | 2/10/2003 | | 1.7 | | | |
| 49058 | 11/14/2002 | | 1.7 | | | |
| 49058 | 2/15/2007 | | 1.7 | | | |
| 49058 | 1/27/2003 | | 7.6 | | | |
| 49058 | 2/12/2009 | | 6.9 | | | |
| 49058 | 1/15/2008 | | 6.6 | | | |
| 49058 | 5/28/2007 | | 7.5 | | | |
| 49058 | 1/25/2010 | | 7.2 | | | |
| 49058 | 3/30/2006 | | 6.8 | | | |
| 49058 | 2/19/2001 | | 6.8 | | | |
| 49058 | 1/10/2003 | | 6.5 | | | |
| 49058 | 2/7/2005 | | 6.5 | | | |
| 49058 | 1/23/2006 | | 6.5 | | | |
| 49058 | 2/6/2009 | | 6.5 | | | |
| 49058 | 1/24/2009 | | 6.5 | | | |
| 49058 | 2/24/2009 | | 6.3 | | | |
| 49058 | 3/1/2007 | | 6.2 | | | |
| 49058 | 1/19/2010 | | 6.2 | | | |
| 49058 | 4/3/2009 | | 6.2 | | | |
| 49058 | 2/21/2003 | | 6.1 | | | |
| 49058 | 12/9/2002 | | 6.1 | | | |
| 49058 | 5/16/2005 | | 6.1 | | | |
| 49058 | 12/17/2005 | | 6.1 | | | |
| 49058 | 1/10/2008 | | 6.1 | | | |
| 49058 | 3/31/2006 | | 4.9 | | | |
| 49058 | 11/13/2006 | | | | | |
| | | | 4.9 | | | |
| 49058 | 6/29/2009 | | 6.1 | | | |
| 49058 | 3/10/2000 | | 5.6 | | | |
| 49058 | 11/5/2002 | | 4.6 | | | |
| 49058 | | | | | | |
| | | | | | | |

| | 11/2/2002 | 4.6 |
|----------------|-------------------------|------------|
| 49058 | 1/15/2004 | 4.6 |
| 49058 | 1/24/2001 | 6.0 |
| 49058 | 11/13/2001 | 5.5 |
| 49058 | 1/16/2009 | 5.2 |
| 49058 | 11/12/2009 | 5.2 |
| 49058 | 11/7/2009 | 4.9 |
| 49058 | 1/29/2009 | 4.9 |
| 49058 | 3/21/1997 | 5.9 |
| 49058 | 1/24/2009 | 5.5 |
| 49058 | 4/9/2002 | 5.1 |
| 49058 | 1/11/2002 | 5.1 |
| 49058 | 2/7/2005 | 5.1 |
| 49058 | 2/8/2007 | 5.1 |
| 49058 | 11/2/2009 | 4.8 |
| 49058 | 7/20/2007 | 5.9 |
| 49058 | 2/9/2009 | 5.5 |
| 49058 | 1/7/2002 | 5.4 |
| 49058 | 2/7/2002 | 5.4 |
| 49058 | 11/4/2002 | 5.4 |
| 49058 | 10/27/2006 | 4.7 |
| 49058 | 3/10/1999 | 5.8 |
| 49058 | 4/4/2006 | 5.8 |
| 49058 | 5/20/2006 | 5.8 |
| 49058 | 5/25/2006 | 5.4 |
| 49058 | 11/10/2005 | 5.4 |
| 49058 | 1/25/2010 | 5.1 |
| 49058 | 10/15/1998 | 5.0 |
| 49058 | 3/23/2002 | 4.8 |
| 49058 | 2/6/2009 | 5.8 |
| 49058 | 6/1/2002 | 5.7 |
| 49058 | 2/15/2005 | 5.7 |
| 49058 | 12/27/2005 12/5/2005 | 5.7 5.3 |
| 49058 49058 | 2/20/2007 | 4.7 |
| 49058 | 3/12/2007 | 5.3 |
| 49058 | 4/14/2004 | 4.9 |
| 49058 | 4/27/2002 | 5.6 |
| 49058 | 1/21/2002 | 5.6 |
| 49058 | 1/31/2009 | 5.3 |
| 49058 | 11/12/2001 | 5.2 |
| 49058 | 2/7/2004 | 5.2 |
| 49058 | 2/24/2007 | 7.9 |
| 49058 | 4/29/2006 | 6.7 |
| 49058 | 1/20/2007 | 7.8 |
| 49058 | 2/6/2009 | 7.4 |
| 49058 | 1/20/2007 | 7.3 |
| 49058 | 2/7/2000 | 7.3 |
| 49058 | 1/15/2009 | 2.0 |
| 49058 | 3/13/2009 | 2.0 |
| 49058 | 12/27/2005 | 17.7 |
| 49058 | 12/17/2003 | 2.0 |
| 49058 | 1/28/2002 | 2.0 |
| 49058 | 1/16/2003 | 2.0 |
| 49058 | 11/6/2002 | 2.0 |
| 49058 | 11/20/2003 | 2.0 |
| 49058 | | |
| | | |

| | 44/04/0000 | 04.0 |
|-------|------------|------|
| 10050 | 11/21/2006 | 21.8 |
| 49058 | 11/12/1998 | 16.8 |
| 49058 | 9/11/2009 | 14.3 |
| 49058 | 1/19/2010 | 14.2 |
| 49058 | 1/25/2010 | 12.9 |
| 49058 | 11/4/2002 | 10.9 |
| 49058 | 1/30/2009 | 10.2 |
| 49058 | 2/9/2007 | 10.1 |
| 49058 | 4/18/2009 | 10.9 |
| 49058 | 2/4/2006 | 9.9 |
| 49058 | 1/24/2009 | 8.8 |
| 49058 | 2/19/2001 | 8.5 |
| 49058 | 2/9/2009 | 8.5 |
| 49058 | 2/4/2004 | 9.6 |
| | | |
| 49058 | 10/28/2009 | 11.2 |
| 49058 | 1/28/2002 | 8.6 |
| 49058 | 2/11/2003 | 2.1 |
| 49058 | 3/7/2005 | 2.1 |
| 49058 | 3/14/2005 | 2.0 |
| 49058 | 10/31/1998 | 8.1 |
| 49058 | 2/8/2005 | 8.1 |
| 49058 | 11/7/2005 | 2.1 |
| 49058 | 2/8/2006 | 2.1 |
| 49058 | 6/23/2006 | 2.0 |
| 49058 | 11/2/2005 | 2.0 |
| 49058 | 12/27/2005 | 2.0 |
| 49058 | 12/30/2005 | 2.0 |
| 49058 | 11/18/2008 | 2.1 |
| 49058 | 11/9/2007 | 2.1 |
| 49058 | 8/9/2007 | 2.0 |
| | | |
| 49058 | 7/18/2008 | 2.0 |
| 49058 | 7/6/2004 | 9.1 |
| 49058 | 2/9/2007 | 9.1 |
| 49058 | 2/25/2006 | 8.6 |
| 49058 | 2/8/2007 | 2.1 |
| 49058 | 2/19/2007 | 2.1 |
| 49058 | 3/2/2007 | 2.1 |
| 49058 | 4/4/1995 | 2.1 |
| 49058 | 10/30/2009 | 2.1 |
| 49058 | 1/28/2010 | 2.1 |
| 49058 | 1/31/2009 | 2.1 |
| 49058 | 11/2/2009 | 2.0 |
| 49058 | 11/9/1998 | 2.0 |
| 49058 | 12/21/1998 | 1.6 |
| 49058 | 11/19/2001 | 1.6 |
| 49058 | 2/3/2003 | 1.6 |
| 49058 | 1/21/2002 | 1.6 |
| | | |
| 49058 | 2/2/2002 | 1.6 |
| 49058 | 10/23/2001 | 1.6 |
| 49058 | 1/30/2006 | 1.6 |
| 49058 | 1/25/2010 | 1.7 |
| 49058 | 1/25/2010 | 1.7 |
| 49058 | 1/31/2009 | 4.2 |
| 49058 | 12/5/2001 | 4.0 |
| 49058 | 3/20/2002 | 4.4 |
| 49058 | 2/23/2005 | 4.4 |
| 49058 | | |
| | | |

| | 4/3/2001 | 4.3 | | | | |
|-------|------------|------------|--|--|--|--|
| 400E9 | 1/21/2002 | 4.3 | | | | |
| 49058 | | | | | | |
| 49058 | 10/29/2004 | 4.0 | | | | |
| 49058 | 1/22/2007 | 4.0 | | | | |
| 49058 | 2/22/2006 | 4.0 | | | | |
| 49058 | 2/28/2006 | 4.0 4.0 | | | | |
| 49058 | 10/28/2006 | | | | | |
| 49058 | 3/9/2007 | 4.0 | | | | |
| 49058 | 1/19/2008 | 4.0 | | | | |
| 49058 | 1/22/2010 | 4.0 | | | | |
| 49058 | 11/18/2008 | 4.4 | | | | |
| 49058 | 11/7/2008 | 4.4 | | | | |
| 49058 | 4/12/2007 | 4.4 | | | | |
| 49058 | 1/27/2010 | 4.3 | | | | |
| 49058 | 2/6/2009 | 4.3 | | | | |
| 49058 | 2/21/1998 | 4.2 | | | | |
| 49058 | 11/4/2002 | 4.2 | | | | |
| 49058 | 11/30/2004 | 4.1 | | | | |
| 49058 | 2/2/2009 | 4.4 | | | | |
| 49058 | 11/4/2002 | 4.2 | | | | |
| 49058 | 2/5/2003 | | | | | |
| | | 4.2 | | | | |
| 49058 | 2/13/2007 | 4.2 | | | | |
| 49058 | 11/3/2007 | 4.1 | | | | |
| 49058 | 4/13/2000 | 4.1 | | | | |
| 49058 | 3/29/2004 | 4.5 | | | | |
| 49058 | 1/23/2007 | 4.5 | | | | |
| 49058 | 4/18/2006 | 4.2 | | | | |
| 49058 | 1/15/2009 | 4.1 | | | | |
| 49058 | 2/6/2009 | 1.6 | | | | |
| 49058 | 2/3/2009 | 1.6 | | | | |
| 49058 | 11/5/1998 | 1.5 | | | | |
| 49058 | 11/18/1998 | 1.5 | | | | |
| 49058 | 3/18/1996 | 1.5 | | | | |
| 49058 | 11/18/2002 | 1.5 | | | | |
| 49058 | 4/17/2000 | 1.6 | | | | |
| 49058 | 12/31/1993 | 1.6 | | | | |
| 49058 | 3/14/2009 | 1.6 | | | | |
| 49058 | 1/31/2009 | 1.6 | | | | |
| 49058 | 4/14/2006 | 1.5 | | | | |
| 49058 | 11/14/2005 | 1.5 | | | | |
| 49058 | 3/20/2008 | 1.5 | | | | |
| 49058 | 1/22/2000 | 1.5 | | | | |
| 49058 | 10/28/1999 | 1.5 | | | | |
| 49058 | 1/28/2002 | 1.5 | | | | |
| | 11/20/2003 | | | | | |
| 49058 | 10/28/2002 | 1.5 | | | | |
| 49058 | 2/1/2005 | 1.5 | | | | |
| 49058 | | 1.5 | | | | |
| 49058 | 2/24/2004 | 1.5 | | | | |
| 49058 | 5/8/2006 | 1.5 | | | | |
| 49058 | 11/1/2001 | 1.4 | | | | |
| 49058 | 2/21/2003 | 1.4 | | | | |
| 49058 | 2/2/2002 | 1.4 | | | | |
| 49058 | 3/11/2002 | 1.4 | | | | |
| 49058 | 3/29/2002 | 1.4 | | | | |
| 49058 | 11/3/2003 | 1.4 | | | | |
| 49058 | 10/29/2001 | 1.4 | | | | |
| 49058 | | | | | | |
| | | | | | | |

AREA RADON INFORMATION

| | 2/24/2004 | 1.4 |
|-------|------------|-----|
| 49058 | 2/24/2004 | 1.4 |
| 49058 | 1/10/2004 | 1.4 |
| 49058 | 4/27/2009 | 1.5 |
| 49058 | 1/31/2009 | 1.5 |
| 49058 | 2/21/2009 | 1.5 |
| 49058 | 11/10/2001 | 1.4 |
| 49058 | 11/16/1998 | 1.4 |
| 49058 | 11/19/1998 | 1.4 |
| 49058 | 1/26/2001 | 1.4 |
| 49058 | 11/1/1999 | 1.4 |
| 49058 | 1/24/2009 | 1.4 |
| 49058 | 1/25/2007 | 1.4 |
| 49058 | 5/29/2006 | 1.4 |
| | | |

Federal EPA Radon Zone for BARRY County: 2

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 49058

Number of sites tested: 2

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|--|-----------------------------|----------------------|--------------------|--------------------|
| Living Area - 1st Floor Living Area - 2nd Floor | 0.200 pCi/L Not Reported | 100% Not Reported | 0% Not Reported | 0% Not Reported |
| Basement | 2.400 pCi/L | 100% | 0% | 0% |

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Source: Department of Natural Resources

Telephone: 517-241-2254

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Data

Source: Department of Environmental Quality

Telephone: 517-335-9218

OTHER STATE DATABASE INFORMATION

Michigan Oil and Gas Wells

Source: Department of Environmental Quality

Locations of oil and gas wells are compiled from permit records on file at the Geological Survey Division (GSD), Michigan Department of Natural Resources.

RADON

State Database: MI Radon

Source: Department of Environmental Quality

Telephone: 517-335-9551 Radon Test Results

Michigan Radon Test Results

Source: Department of Environmental Quality

Telephone: 517-335-8037

These results are from test kits distributed by the local health departments and used by

Michigan residents. There is no way of knowing whether the devices were used properly, whether there are duplicates (or repeat verification) test (i.e., more than one sample per home), etc.

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at

private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities

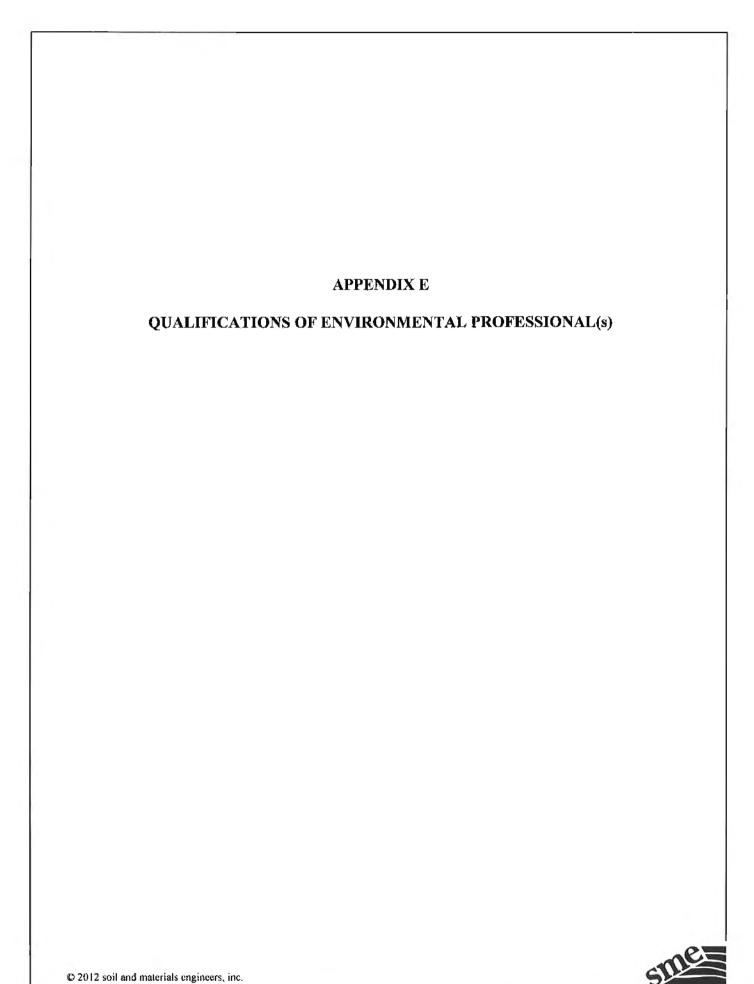
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

STREET AND ADDRESS INFORMATION

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Senior Consultant

Mr. Egan provides senior technical consulting and project management expertise in the areas of brownfield redevelopment and financing, site investigation and remediation, environmental due diligence, RCRA Corrective Action, environmental regulatory compliance, and environmental chemistry.

Professional Qualifications:

- > 35 years experience in environmental evaluations and consulting, including 15 years experience with the Ohio Voluntary Action Program (VAP).
- > Served as Certified Professional (CP) or principal author for 15 No Further Action (NFA) letters for redevelopment projects that received Covenant Not to Sue Status.
- ➤ Obtained approximately \$10 million in Clean Ohio Revitalization Fund (CORF) and Clean Ohio Assistance Fund (COAF) grants for redevelopment projects.
- > Successfully prepared a U.S. EPA Brownfield Pilot Project grant application.
- > Expert in liability management and due care planning for property transactions, brownfield redevelopment planning and environmental response actions, and identification and acquisition of financial incentives for brownfield redevelopments
- > Expert at environmental site investigations and development of remediation alternatives for industrial and commercial facilities, UST sites, and RCRA Corrective Action facilities.

* Representative Project Experience:

- > Successfully prepared the \$2.9 million CORF grant application for Clean Ohio funds to remediate and redevelop a former shingle manufacturing facility in Lockland, Ohio. Funds were used to demolish buildings, remediate impacted soil and install underground utilities. Managed the site investigation, remediation, and redevelopment of the property as well as CORF budgeting and invoicing. Prepared the Phase I and II Property Assessments, Remedial Action Plan, and Remedial Implementation Report.
- > CP for a former asbestos-containing building material manufacturing facility. Prepared a work plan responding to deficiencies contained in a NFA letter prepared by others. The plan addressed trace levels of asbestos in the soil. Recommended and monitored an air sampling plan approved by the State of Ohio. Prepared a revised Phase II Property Assessment, a Property-Specific Risk Assessment, new Executive Summary and Filing Document, and NFA letter for this COAF supported project.
- > CP for a former china manufacturing facility that was redeveloped for commercial and recreational use. The site was heavily impacted with lead requiring remediation of the soil and sediments. Remediation required interagency cooperation between VAP, the Division of Surface Water, Division of Hazardous Waste Management, and the Division of Solid and Infectious Waste. Prepared the Phase I and II Property Assessments, Property-Specific Risk Assessment, Remedial Implementation Report, and the Executive Summary and Filing Document. The project received Covenant Not to Sue status.
- > Project manager for underground storage tank sites obtaining No Further Action status for over 50 Ohio sites using a risk-based approach.
- > Project manager for over 100 Phase I/II site assessments for due diligence related to property transfers and corporate acquisitions and divestitures in several states.

Career History: SME since May, 2010 - Other firms from 1977

Education: B.S., Environmental Science, University of Arkansas

Graduate Studies in Geology, University of Oklahoma

Registrations: Certified Professional – State of Ohio VAP Program

40-Hour HAZWOPER Course



Senior Consultant

- > CP for a former scrap metal recycling facility now developed for commercial use. This site was heavily impacted with metals and petroleum hydrocarbons requiring remediation of the soil. Prepared a Property-Specific Risk Assessment, Remedial Implementation Report, and the Executive Summary and Filing Document. The project received Covenant Not to Sue status.
- > Project manager for the remedial investigation of five Superfund sites in Ohio, Kentucky and California.
- > Project manager for all phases of the VAP project at a lead impacted property in Ohio. Developed a sampling strategy, provided oversight of field activities, and prepared Phase I and II Property Assessments and Remedial Implementation Reports. The project received Covenant Not to Sue status and is being transformed into a residential development.
- Managed all phases of the VAP projects at two aircraft parts machining facilities in Cincinnati, Ohio. Project included development of the sampling strategy, oversight of field activities, and preparation of the Phase II Property Assessment and Project-Specific Risk Assessment reports. A Covenant Not to Sue was issued for both properties.
- > Managed the VAP assessment of a former linoleum manufacturing facility now developed for residential use. Project included development of the sampling strategy, oversight of field activities, and preparation of the Project-Specific Risk Assessment report. Remediation of this property was driven by residential direct contact and site-specific leaching standards. During the remediation, continually performed cumulative risk analysis and leaching modeling to assess if the current concentrations remaining at the property posed a risk to human receptors and groundwater. This approach prevented unnecessary soil remediation. A Covenant Not to Sue was issued for this property.
- Managed the VAP activities related to redevelopment of a former paper mill. Developed the sampling strategy, provided oversight of field activities, and prepared the Phase II Property Assessment and Project-Specific Risk Assessment reports. The key to the success of this project was development of a site-specific lead leaching standard based on bench scale leachability tests, the first to be approved by OEPA. A Covenant Not to Sue was issued for this site.



Environmental Scientist

Performs Phase I and II Environmental Site Assessments; subsurface characterization investigations including soil classification; and soil, gas, and groundwater sampling. Assists in hazardous materials assessments to address potential hazards (such as asbestos, lead, mercury, polychlorinated biphenyls (PCBs), and biological contaminants) prior to renovation or demolition.

Professional Qualifications:

- > Skilled in performing water sampling, flow measurement and input of water quality data.
- > Experienced in conducting ion, column, and thin layer chromatography.
- > Skilled in grass, soil, root, and total metals digestions.
- > Experienced in particle size analysis and total suspended solids analysis.

* Representative Project Experience:

- > Provided environmental services for Rural Action AmeriCorps Watershed. Performed water quality sampling, flow measurement, and input of water quality data. Coordinated volunteer water quality monitoring program and provided youth education of field experience. Developed grant proposal submitted to the Captain Planet Foundation "(B)rain Gardens."
- > Served as graduate research assistant at Ohio University's Civil (Environmental) Engineering Department. Performed storm water filtration performance tests on vegetated biofilter plots emulating highway medians. Collected and analyzed water samples from the influent and effluent of vegetated biofilters and interpreted the data. Performed total metals digestions and total suspended solids analysis on water samples. Digested grass, soil, and root samples to determine metal contents from core samples and performed sequential extraction procedures to determine chemical fractions within soil samples.
- > Served as laboratory assistant at Ohio University's Civil (Environmental) Engineering Department. Collected water samples for vegetated biofilter testing, determined specific procedures necessary for metals analyses, analyzed samples to be sent to the chemistry department, and updated laboratory health and safety document.
- ❖ Career History: SME since 2011; AmeriCorps in 2010
- **Education:** B.S., Forensic Chemistry, Ohio University

M.S., Environmental Studies (Environmental Physical and Earth

Sciences), Ohio University

Certifications: 40-Hour HAZWOPER Course

Asbestos Building Inspector Initial Training – State of Michigan

❖ Affiliations: Water Management Association of Ohio



Senior Environmental Engineer

Performs a broad range of tasks related to Phase I and Phase II Environmental Site Assessments (ESAs), Baseline Environmental Assessments (BEAs), Brownfield Redevelopment and Assessment Grants and Financing, Toxic Release Inventory (TRI) reporting, excavation monitoring, and other related environmental and/or subsurface assessment activities.

Professional Qualifications:

- > Skilled at conducting Phase I ESAs, including property history research, site walkover observation, and Phase I ESA report preparation.
- > Experienced at conducting Phase II ESAs, BEAs and other subsurface investigations, including assessing site conditions and history for soil probe, test pits, and/or monitoring well placement, delineation of subsurface impact, and assessment of potential exposure pathways.
- > Experienced in TRI reporting including data collection, conducting site visits, calculating releases, preparing reports, and analyzing data.

* Representative Project Experience:

- > Completed U.S. EPA Assessment Grant applications for the cities of Buchanan, Battle Creek, Albion, and Calhoun County, Michigan, and DeKalb County, Indiana.
- Assisted with oversight and implementation of the Calhoun County, City of Buchanan, City of Albion, City of Battle Creek, and Cities of Allegan, Otsego, and Plainwell Assessment Grants, including development of a Quality Assurance Project Plans (QAPPs), Health and Safety Plans (HASPs), and Sampling and Analysis Plans (SAPs).
- ➤ Performed over 80 Phase I ESAs, Phase II ESAs, and BEAs in southwest Michigan for individuals, corporations, and lending institutions, in association with properties ranging from residential/commercial to industrial usages.
 - Conducted multiple Phase I and Phase II ESAs related to the Calhoun County Assessment Grant. ESAs were performed in Albion, Battle Creek, Marshall, and Springfield. Clients included Calhoun County Road Commission, Calhoun County Community Development, Allman Development, and Sioux Chief Manufacturing. Also assisted with the oversight and implementation of the assessment grant, including development of a QAPP.
 - Conducted multiple Phase I and Phase II ESA's in support of the W. K. Kellogg Institute for Food and Nutrition Research facility expansion in downtown Battle Creek, and in support of redevelopment of sites within the Fort Custer Industrial Park in Battle Creek. ESAs were performed for Battle Creek Unlimited.
 - Conducted multiple Phase I and Phase II ESAs in support of the City of Buchanan U.S. EPA Assessment Grant.
- > Prepared TRI reports for a major automotive manufacturer assembly and stamping facilities.
- > Analyzed data and prepared quarterly hydrogeologic monitoring reports for Central Sanitary Landfill in Michigan.

Career History: SME since 2006

Education: B.S., Civil and Environmental Engineering, Northern Arizona University

M.S., Environmental Engineering, University of Notre Dame

Certifications: Engineer-in-Training (EIT) - Michigan

40-Hour HAZWOPER Training

❖ **Affiliations:** Air & Waste Management Association

Tau Beta Pi – Engineering Honor Society

